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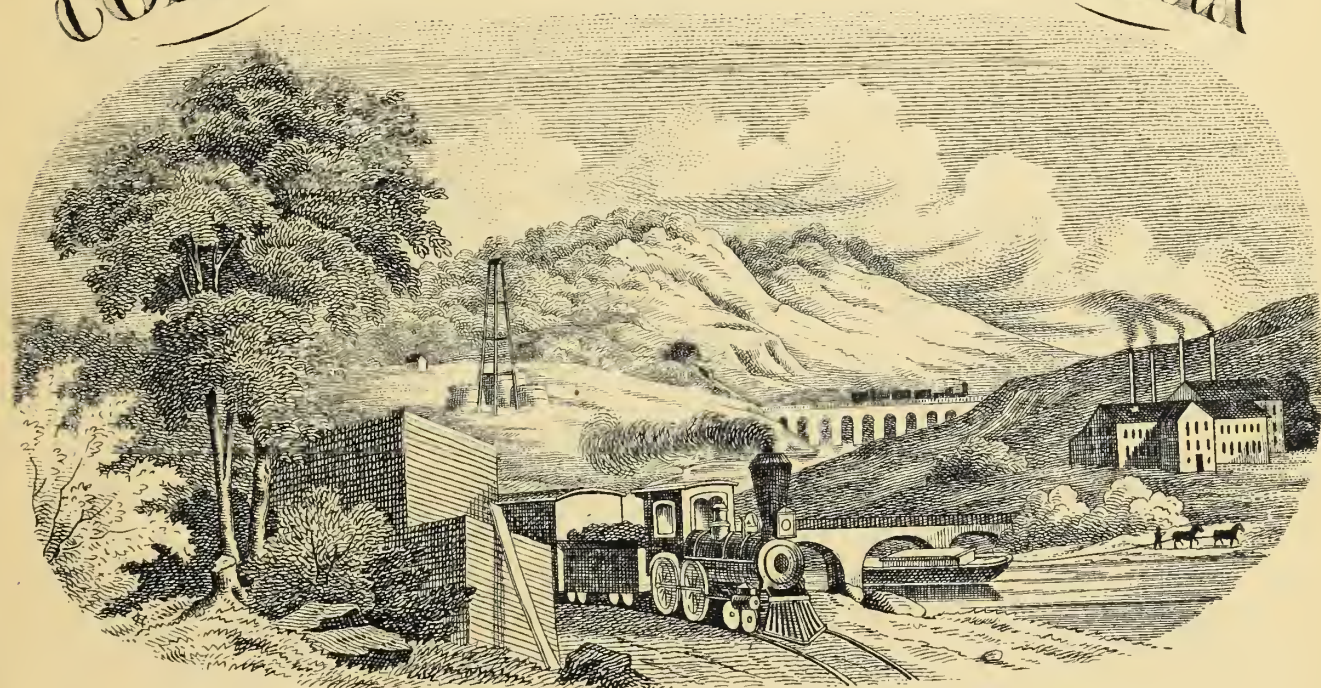
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ANNUAL REPORT
OF THE
Secretary of Internal Affairs
OF THE
COMMONWEALTH OF PENNSYLVANIA



PART III
INDUSTRIAL STATISTICS.
VOL. XVI

1888.

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REPORT

OF THE

BUREAU OF INDUSTRIAL STATISTICS.

COMMUNICATION.

DEPARTMENT OF INTERNAL AFFAIRS,
HARRISBURG, *May 29, 1889.*

To His Excellency JAMES A. BEAVER,

Governor of the Commonwealth of Pennsylvania:

SIR: In compliance with the requirements of the Constitution, I have the honor to submit herewith for transmission to the General Assembly, the Sixteenth Annual Report of the Bureau of Industrial Statistics, the same being Part III of Report of this Department for the year ending November 30, 1888.

I am very respectfully,

Your obedient servant,

THOMAS J. STEWART,
Secretary of Internal Affairs.

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LETTER OF TRANSMITTAL.

HARRISBURG. *May 1, 1889.*

Honorable THOMAS J. STEWART, *Secretary of Internal Affairs of the Commonwealth of Pennsylvania:*

SIR: I have the honor to present herewith the Sixteenth Annual Report of the Bureau of Industrial Statistics.

The first inquiry relates to the history and operations of building and loan associations. This, it is believed, will be found instructive and useful; and already several hundred applications for copies have been received. The next portion of the Report is devoted to the subject of miners' earnings. The earnings of no class of workingmen have received so much attention from newspapers and political writers, and yet statements of the earnings of this class have often been further from the truth than the statements of the earnings of any other. Statistics of wages paid by many of the employers of labor, and the time of operating their establishments are also given. These are followed by several papers concerning the employment of labor, labor organizations, technical education, etc. The preparation of that part of the Report relating to worsted manufacturing is mainly the work, by request of the Bureau, of Crawford D. Hening.

The statistics relating to coke production for 1888 appear in this Report. The differences between them and the statistics which have been published elsewhere are explained in the introduction to the table. In compliance with a request to the Bureau the iron ore production has also been obtained, and is very nearly, if not quite, complete.

The Bureau regrets the loss of Capt. J. M. Clark, by resignation. With his accuracy in the use of figures, was shown a zeal and faithfulness in his work, worthy of much praise,

ALBERT S BOLLES,
Chief of Bureau.



THE HISTORY AND STATISTICS OF BUILDING AND LOAN ASSOCIATIONS.

[The following report on building and loan associations has been prepared by Michael J. Brown, assisted by Joseph J. Paist, both of Philadelphia. For many years they have carefully studied these associations, and are more familiar with them, doubtless, than any other persons in the country. As Philadelphia is the place of their birth in this country, and where they have multiplied the most rapidly, their history is longer and more varied than in other places or States.

Building societies existing in Pennsylvania are, in effect, co-öperative savings banks that lend their money chiefly (almost wholly) on mortgages, and therefore assist their members either to build or buy homes. They differ from savings banks in this respect, their deposits are not made in irregular sums at the will of the investor, but in monthly instalments which become compulsory after the first payment. Furthermore, as a rule, they have no dealings with the general public, as their money is loaned only to members.

Building societies and savings banks are not, therefore, rivals except in a general way; each has its own field of usefulness, yet it is desirable to contrast them in some particulars so that the methods and merits of both may be understood. A man may, if he desires, deal with a savings bank exactly as he does with a building society, putting in a certain amount of money each month, borrowing from the savings bank and using his accumulated funds to pay off his mortgage. In a savings bank he *may* do this; in a building society he *must* make his payments after he has begun, and the accumulated funds must be applied to the discharge of his indebtedness if he has borrowed money. In the savings bank he is simply a depositor or customer having no control in the direction of the business; in the building society he is a partner having equal voice with other members in the management of the business. In the savings bank he receives a fixed rate of interest on his deposits, or a rate fixed from time to time by the directors; in the building society he is a partner, sharing in whatever profits (or losses), may result from the business.

In contrasting the history of building societies with that of savings banks, the objection has often been made that the former have often charged too high a rate of interest, which has unduly burdened the borrower. It is true that the average rate is considerably higher than

the rate charged by savings banks, but the borrowers are also the lenders, and, therefore, if they pay a high rate for money, they also receive a high rate on their investment. Savings banks, on the other hand, if charging a low rate of interest, pay a low rate to the investors, who to a considerable extent, as we shall show before concluding, are also borrowers of money. This argument, then, against building and loan associations is not a particularly strong one, and certainly has not been strong enough of late years to deter their rapid growth. While savings banks are flourishing, building and loan associations are equally, if not more so; their members well understanding the difference between the rates of interest charged by both, and the reasons therefor.

It may be remarked that the loans of savings banks are largely made to men of small means desiring homes; their deposits, therefore, are consecrated to the same purpose as the deposits or investments by members of building and loan associations. It may also be fairly claimed for savings banks that their primary double object has been to encourage deposits by persons having small means and the lending of the same to persons who were desirous of securing homes for themselves and families. A very large portion of savings banks deposits are secured by mortgage on real estate. In some of the States stringent laws require them to loan fifty per cent. or more of their deposits on such security. The object of these is to aid people who are desirous of securing homes. There is, then, not such a wide difference between the aims of the two kinds of associations as some people suppose; but this must be said of building and loan associations, that their entire receipts are devoted to this purpose; that this is not only the primary but the sole object of establishing them, while savings banks, to some extent at least, divert the money of depositors to other purposes. The depositor or investor in a building and loan association has always in view the building of a home either for himself or for some of his co-members, while the savings bank depositor is chiefly thinking of his dividend when investing his money, without much thought of aiding those around him in securing homes or in other ways.

One reason why building and loan associations are able to make such good dividends is because their expenses are small. Economically managed as savings banks often are, their expenses are much greater than those of building and loan associations. Thus, in a recent number of a Philadelphia paper it was asserted that the average annual expenses of one hundred and twenty of these associations, located within the State, amounted to only three hundred and seventy-eight dollars, including the secretary's salary, which averaged two hundred and twenty-five dollars. The salaries of six secretaries in societies whose assets amount to \$563,000, were only \$1,368, or an average of \$228. Certainly savings banks can make no such

showing as this in their expense account. One can readily see a fair dividend in the saving of expenditure thus effected. The explanation for their greater economy of management is very simple. They have no offices, their business is conducted for the most part in the evening after their members have finished their daily work, and no one is paid except a secretary, while he, as we have seen, receives but a small salary. The savings bank has a building and clerks, and while none of the salaries are excessive, yet the annual expenditure is considerable, especially in the large cities where rents are high, and where the leading officers, at least, must be paid a considerable sum for managing them.

The objection may be made that this unpretentious and cheap mode of doing business leads to more irregularities and losses than is the case among completely organized institutions, whose officers are regularly paid, and who devote their chief time to the management of the business. It is remarkable, though, how small have been the losses in building and loan associations, so far as we are able to ascertain. The explanation is simple. The members are investors as well as borrowers. They, therefore, watch over their interests with greater keenness probably than any other class of investors. The ordinary savings bank depositor takes no part in the management of his association. The genesis of one clearly shows this. How is a savings bank started and conducted? Several men, believing that such an institution is needed in a place, meet together and determine to apply for a charter for such an association. They include themselves and others as incorporators and trustees. The charter is granted to these individuals, and authorizes them to meet and organize for the purpose. They select from their number those who are to serve as directors, who in turn select the treasurer, secretary and clerks, who are to conduct the business. Whenever a trustee dies, the others select another person to fill his place. The depositors have nothing to do with the selection. All is, in truth, left to the original trustees and their successors. The efficiency of a savings bank, therefore, depends entirely on their honesty and ability.

This is true alike of those savings banks that are started for commercial profit, and for those organized, as some in this State are, for purely philanthropic purposes, and which have capital or assets greatly in excess of their deposits.

As a whole, the history of savings banks in this country is a good one. It is a beautiful and interesting chapter in the history of American institutions; but this brief diagnosis of a savings bank clearly shows that the depositors are not so intimately connected with its management as the investors of building and loan associations are with their institutions. They are not only the creditors, but at all times the managers and guardians, and so loss through irregularities or mismanagement of any kind have been very slight.

It is true that losses have sometimes occurred among building and loan associations. Occasionally, the loan has not been properly secured; but savings banks have a worse history in this regard. Their losses on some occasions, carefully made as their loans were, have been large. Usually, a savings bank endeavors to have a security worth at least twice as much as the money loaned. This would seem to be a sufficient margin to protect it against every hazard, but more than once the value of property has depreciated rapidly, and this margin has been swept away and more besides, so that loss in the end was sustained. During the panic of 1873 and the long depression that followed, there were many losses of this kind arising from an enormous decline in the value of the security taken. Building and loan associations, while suffering in the same manner, have certainly suffered much less than their rival associations.

But building societies have other sources of security arising from their methods of doing business. They are usually small, formed by members personally known to each other; their officers and managers are personal friends or acquaintances of nine-tenths of the members; their business is transacted for the most part in the presence of at least some of the members; the treasurer has control at any one time of only a small amount of money not much in excess, if any more, than the bond he has given to the society; the money loaned is secured not only by the mortgage against real property, but by the stock of the member given as collateral security, and the latter is constantly increasing in value so that if the loan as originally made is secure, it becomes by lapse of time more secure, and this increased security from the collateral usually offsets any unexpected depreciation in the value of real estate and consequently of the mortgage.

The losses that have come to building societies have been in many instances more fanciful than real; they have been losses of expected rather than of accrued profits, and in nearly all cases may be traced rather to ignorance of true principles than to intentional dishonesty or mismanagement. In rare cases (so rare that they scarcely deserve mention) officers becoming involved in private speculations have become dishonest, but their opportunities for embezzlements have been so small that in no recorded instance within the knowledge of the writer has there been a loss of money actually invested. Profits have been wiped out, or nearly so, but investors receive at least the amount of money they have paid in. Other sources of apparent loss have been due to a false division of profits arising from a misunderstanding of the effect of issuing stock in series. For a time there prevailed a false division of profits which took from later series and gave to those maturing money not yet earned. This has been corrected and is only mentioned to explain some of the former troubles through which building societies have passed, but which no longer beset them. Other evils corrected by legislation have been the charging of exces-

sive fines,* but these militated against the borrowing members chiefly and not against the society.

It may also be said in favor of building and loan associations that they have a better knowledge of their security, than the managers of savings banks have of the securities taken by them. Usually, a savings bank has a committee on real estate, who investigate into the worth of a security and make a report to the directors, on which action is based in making the loan. This committee consists, perhaps, of three or five persons, intelligent and trustworthy men, but who, after all, however careful they may be in their inquiries and investigations, fail to ascertain its value as accurately as the members of building and loan associations do of the value of the property on which their loans are made. For let it be remembered they are almost always workingmen, well knowing the nature of the houses taken for security, the cost of building them, and all the particulars concerning them; and consequently there is hardly any room for mistake or error in loaning their money. It is quite impossible to conceive of a business which can be conducted more intelligently and with greater security in this regard than the business of these associations.

It may be asked, would it not be well to subject these associations to a State investigation of the same kind as savings banks are in many States? There are two sides to this question of State superintendence. Whenever these officials have been efficient, they have performed good work and have doubtless prevented frauds, and more often losses from inexperience or unintentional mismanagement; but everything depends on the efficiency and integrity of the official. A poor official is far worse than nobody, for then he serves as a blind to delude the public and the stockholders or depositors of these institutions. A depositor thinks everything is all right in his bank, because the State superintendent says so, when in fact, as has been too often shown, a mere shell has been kept in existence for years whose inside had long ago been lost by mismanagement or fraud. In this State banks of no kind have been subjected to State superintendence, although the wisdom of doing so has been often asserted. A bill for that purpose has been introduced several times into the Legislature.

Another point of comparison worth mentioning is that fixed times for paying into these institutions tend to the formation of the habit for saving, and the growth of prudence. The savings bank depositor can pay into his bank whenever he pleases, and draw out his money usually without notice. While, of course, this plan has some advantages, it does not enforce economy and prudence like a plan calling for fixed payments, which is the case with building and loan associations and life insurance societies. Extravagance is restrained, the virtue of self-denial is practiced, and thus men get a more complete

* Corrected by the act of 1879.

mastery over those elements within and without which hinder their growth.

The crowning glory of these institutions is that their funds are devoted to a single purpose, the purchase of houses for workingmen. That they have been singularly successful cannot be questioned, for the conclusive proof is before our eyes. A stranger, hastily looking over Philadelphia, remarks on its uniform and modest appearance; and is too apt to draw an unfavorable comparison with New York. His judgment is founded on a slight examination of both cities. Had he gone through the miles and miles of streets in Philadelphia lined with comfortable homes he would have concluded that, after all, the elegance of New York is for the few, while the comfort of Philadelphia is for the multitude. In Philadelphia more people own their own homes and enjoy a larger degree of comfort and independence, and possess a more healthful conservatism than the people of any other city in the world. A house-owner and taxpayer is a conservative citizen; he will never become infected with the spirit of anarchy. One of the best proofs of this is, in recent years, when so much agitation and disquietude have existed in many places, Philadelphia has been as peaceful as a country village. The existence of so many house-owners there is due in no small degree to the influence and methods of building and loan associations.—CHIEF OF BUREAU.]

BUILDING AND LOAN ASSOCIATIONS.

As early as the year 1852 a Mr. S. K. Cox published at Charleston, South Carolina, a little book, entitled "Mutual Benefit Building and Loan Associations." His reference to these associations was couched in the following language:

"The present age, so remarkable in every respect as an age of progress, in nothing more deserves this distinction than in its many organized efforts to elevate and improve the condition of the humbler classes of society, to break down the aristocracy of rank and wealth, and raise mankind to a level of a common brotherhood.

We do not refer to those wild Utopian schemes of communism, which, by destroying all legitimate rights and distinctions, sap the very foundations of social order and prosperity; but to the many means of a sound and practical nature, that look to the right development of individual character and enterprise, that hold forth to honest industry its proper reward, and to the lowest the hope of promotion; and which, by relieving the poor of the degrading privations of their lot, enhance their comfort, respectability and usefulness.

Few existing organizations are likely to contribute more to these results than building and loan associations."

Their Primary Object.

The primary object of these associations is to enable every man to become *his own* landlord—to purchase a home for himself and family by paying into a joint concern, for a few years, but little, if any, more than would otherwise have been expended in rent.

By uniting the savings of their individual members, a capital is created and distributed into and among the hands that rear it.

It is evident that many individuals combining together can make small sums of money far more productive than these sums can be made separately. When it is considered that a number of persons save money by the mere process of *hoarding*, and without making one farthing of interest, that money thus saved is of no use to any one while the saving is in progress, and that by the instrumentality of building associations money is, from the very commencement, kept actively employed, continually producing and re-producing at a wonderful rate of increase, and yet loaned to the borrower on more advantageous terms than by any other kind of loan, the usefulness of these associations becomes manifest. In fact their

Leading Principle

is, that money makes money if well used. It is the aim of these associations to enable persons in the humbler ranks of life to become *owners* of real property instead of mere *renters* of it.

By the old system of house-tenancy, the *many pay rent for the benefit of the few*; through the building and loan association the *many combine together so as to put the rents into their own pockets*.

Their Principles Explained.

The principles of building association management are as follows:

Every borrower is always a member and an investor. Investors or members contribute \$1 per month per share until each share, including the profits in the business, reaches the ultimate value of \$200. In many of the associations the shares reach maturity in about one hundred and forty months. (If associations demand a premium on all funds that are loaned, of course, they mature in less time).

At one hundred and forty months without a premium the account would stand as follows:

One hundred and forty months, at \$1 per month,	\$140 00
Gain of term,	60 00
Total value,	<u>\$200 00</u>

Profits for above Period or the Term.

No person is allowed to borrow from the society unless he is a member or becomes one.

The society will lend a member \$200 on each share to which he is contributing. When there is a demand for the money, by reason of several members wanting it at one time, the borrowers bid a pre-

mium for it, and the highest bidder secures the money by agreeing to pay (if on what is called the instalment plan) so many cents per month per share for each month the loan has to run. To secure a loan of \$200 if the premium paid happens to be 40 cents per share the monthly payments would be as follows :

Interest, \$1 per month ; premium, 40 cents per month, and dues \$1 per month or a monthly total of \$2.40.

The \$1 for interest and the 40 cents for premium find their way into the profit account of the association. The dues are always the property of the shareholder. When a loan is secured the shares are held as collateral security and cannot be withdrawn until the loan is repaid at or before maturity of the shares.

These payments are kept up for say, one hundred and forty months or one hundred and twenty-six months, until the shares reach the value of \$200.

With a premium of 40 cents per share it will be shown elsewhere that maturity takes place after payment of one hundred and twenty-six months' dues, depending on the profits of the society.

One hundred and twenty-six months' dues, at \$1,	\$126 00
Gain or profits of term,	74 00
Total value,	<u>\$200 00</u>

At this point a settlement is made and it is found that the borrower owes the society \$200, which he borrowed one hundred and twenty-six months ago, and the books also show that the member or investor is entitled to \$200 from the society by reason of the shares having reached that value.

Now the borrower must pay to the society \$200 and on the other hand the society must pay to the investor \$200. Good book-keeping will not admit of simply calling these accounts square, and the process by which the accounts are settled is as follows :

The secretary draws an order for the matured shares, making a careful list of its book number series, etc., and charges the same in his cash book. This order is handed to the owner of it (who in this case happens to be a borrower), who endorses it, signs a proper release of the shares to the association and hands the order back to the secretary (as cash) to be used for the repayment of the loan. This sum is entered in the cash book as a receipt from a loan paid off. These entries find their way through the books of the association. While every borrower must be an investor many members are simply investors, and not borrowers. The investor receives in cash \$200 per share the moment the borrower is freed from his debt.

Shares.

A share of stock, so called, is the accumulation of one dollar per month, until a final value of \$200 is reached, by adding together the monthly deposits and the gains.

Members.

All who join a building association are required to contribute one or more dollars per month, according to their saving ability.

Dues.

In building association language these monthly deposits are called dues.

Monthly Receipts.

The monthly receipts are loaned to members (only) in sums of \$200 or its multiple.

Investors.

Strictly speaking, there is no class of "investors" in American societies. But all members, whether they borrow or do not borrow, are investors. If they borrow they become known as borrowers so that those who do not borrow may, for convenience, be called investors. It should be remembered, however, that an investor may become a borrower, and that a borrower, by repaying his loan before maturity, may return to his former status as a non-borrower or an investor.

Borrowers.

Those who borrow are required to furnish satisfactory security (real estate or society stock), and for each \$200 borrowed, they are required to pay one dollar per month interest, besides the other dollar which is paid towards a future share of stock, which is to become worth \$200.

Free Shares.

Free shares is a technical term applied to those shares upon which no loan has been made.

The Settlement.

When the monthly deposits or payments and gains make each share of stock worth \$200, the share of the borrower cancels the debt of \$200 which he owes to the society. The member who has not borrowed is entitled to and receives his \$200.

The Partnership.

The gains are divided so that all the money invested, as dues, by all the members receives a like per cent. per annum for the average time of investment.

Withdrawals.

The members may withdraw their deposits (when not pledged for loans) after thirty days' notice and receive all they have paid in, with their proportion of gains added.

Payment of Loans.

The borrowers may repay their loans at any time, and use in part payment their deposits with gains added. The borrowers may also repay their loans in instalments of \$100 or \$200 and withdraw if say \$200 is paid.

The above is a simple sketch of the scheme.

Their American History.

It is believed that Frankford, now a part of Philadelphia proper, saw the first building association that was organized in the United States. It was called the "Oxford Provident Building Association," and was started in 1831, fifty-seven years ago. It closed its affairs in June of 1841. The second Frankford association, of the same name, was organized in February of 1841, and ran out in August, 1852. Isaac Whitelock was president, Samuel Pilling, treasurer, and Isaac Shallcross, secretary, of the first Frankford; and Henry Taylor, president; Isaac Shallcross, secretary, and William Overington, treasurer, of the second Frankford. The Holmesburg Building Association was organized in January, 1842, and closed its business satisfactorily to the members June 25, 1853. There has been considerable dispute as to which was really the first building society in Philadelphia. Some years ago the following appeared in the *Public Ledger*: "At the organization of a new building and loan association last Saturday evening, Mr. John B. Duff, exhibited an old yellow "poster" in a gilt frame, and said it was the public call for the first meeting of the first building association organized in Philadelphia. The meeting was called to assemble at the Kensington Engine Hall, on Queen street above Marlborough street, on Friday evening, January 22, 1847. Mr. Duff signed the call and helped to organize the society, the Kensington. The Kensington issued five hundred shares of stock in one series, and wound up its shares in ten years and two months after it was organized. The first published advertisement of any building and loan association appeared in the *Ledger*, February 5, 1847, and called for a meeting of this Kensington Association. In the *Ledger* for 1857, advertisements of four or five such associations appear almost every day."

This led to a number of communications on the subject one of which referred to Mr. Duff as follows: "If Mr. Duff had displayed as much interest in looking up the statistics of building associations as he has shown in preserving the yellow poster, he would have found that building associations were organized in Philadelphia, many years before 1847."

Mr. Duff, however adhered to his statement in the following letter addressed to the public:

"The fact that I did take the trouble to hunt up the statistics, justifies me in saying that I have done something more than preserving what I cannot help regarding as an interesting "yellow poster." In January, 1872, the *Building Association Journal* published a history of these associations in this country, which was taken from the *Frankford Herald*. The main points of the history are as follows: It is supposed that building associations originated in Scotland about the year 1815, thence they spread to England, and in 1831, some gentlemen living in and near Frankford, who had become acquainted with the workings of the English societies, organized the Oxford Provident

Building Association of Frankford. The dues were \$3.00 per share, per month, and the par value of each share \$500. The society organized January 3, 1831, and run ten years and six months. A new society of the same name was formed and was followed by another called the Franklin, with dues \$1 per share, and the par value of each \$200. In the summer of 1846, I was building a house on Trenton turnpike, above Frankford, and boarded with a man named Richard Travis, at whose house I saw a copy of the Franklin Society's constitution and by-laws. When I returned to Kensington, in the fall of the same year, I endeavored to organize a society there, and, as a result of my labors, the Kensington Building Society was formed January 22, 1847. I did not mean that the Kensington was the first society of the kind within the old *county* of Philadelphia, but simply that it was the first within the compactly built up city of Philadelphia. As Philadelphia was known at that time, I was instrumental in having the first of these societies in the city proper organized."

The writer of the above letter, John B. Duff, died in 1883, after having served as an officer in many building associations for thirty-six years. Mr. Duff seldom, if ever, held forth in public, but his efficient work was done by taking individual cases and converting them to the benefits of obtaining homes for themselves. Frequently he has been seen on a pile of lumber (he was a lumber counter) with chalk in hand, demonstrating a problem in building association arithmetic to converts to this system of saving. The old yellow poster is still in existence, having been presented to the editor of the *Building Association and Home Journal* by Mr. Duff just before his death.

Their Early History in England.

From a work published by Henry N. A. Davis, London, and other sources, the following information is obtained concerning building society history:

The earliest authentic information on the subject shows that associations for enabling the subscribers to build on purchase dwelling-houses were known in Birmingham so far back as the year 1781. In Mr. Langford's "Century of Birmingham Life," there is mention made of certain proposals for establishing a society for building on lands belonging to William Jennings, Esq. The society was governed by rules or articles, from which the following extracts will show the nature of the scheme:

III. That each subscriber for three shares shall have one or more houses built of the value of 200 guineas, and each subscriber for two shares shall have one or more houses, value £140; and each subscriber for one share shall have a single house, value £70.

IV. That the rents and profits of the said intended buildings be paid into the hands of the treasurer and added to the general fund of stock.

V. That the committee shall have power to contract for the leasing of the lands intended to be built upon in such proportion as they shall think proper, and for such terms, not less than 100 years, and subject to a ground rent not exceeding three half pence per square yard.

VII. That the land intending for building upon shall be laid out in lots and balloted for by the subscribers, and separate leases made and executed, but such leases to remain in the hands of the committee till the proposed buildings are completed. There were to be monthly subscriptions of 10s. 6d. per share; a committee of management was to be elected annually, and rules were from time to time to be made by a majority of the members. In the main this appears to have resembled the more modern land societies. Whether or not it met with success is not recorded. A few years later, in 1795, mention is made of "building clubs," evidently well-known bodies, having made a beginning on a certain newly endorsed trust in Birmingham upon a scale of twenty houses and gardens to an acre of land.

In January, 1809, the Greenwich Union Building Society was founded upon a deed of rules and regulations some of which have been preserved in the report of certain legal proceedings to which its transactions gave rise. The object was stated to be the raising of a fund, by the monthly subscriptions of the members, which was to be laid out in building houses and the dividing of the same among the subscribers, under and subject to the rules. By the first article it was declared that the society should consist of no more than fifty members, holding in the whole not more than 200 shares of £210 each. The third article declared that the members should meet on the first Thursday in every month, when the books should continue open for two hours, and each member should pay two guineas on every share held by him until £210 should be paid for each share, such payments to be made to the treasurer.

The fourth article provided that any member neglecting to make his payment at such meeting should forfeit 2s. 6d., and if such arrears and forfeitures were not paid at the next meeting then he should forfeit 5s., and for a third default, 10s. 6d., and if, after notice, he should still neglect to comply with the articles, he should be excluded, and the money advanced by him forfeited, unless he should provide a person within three months from his last default who would be voted eligible to become a member by the society, in which case the member selling his shares should forfeit ten per cent. upon his subscriptions, for the benefit of the society, unless the default appeared to happen from the misfortune of the person so selling his shares.

By the fifth article the members were to draw lots from time to time as often as the funds amounted to £100. By the eighth, ninth, tenth and eleventh articles every share should consist of a dwelling house of the best materials, to be completed in workmanlike manner

within six months after such notice, also penalties on the tradesmen who might delay the contract.

The member owning the finished house should pay the society five per cent. per annum on the £210 share so drawn until the final close of the society. The title deeds should be deposited with the treasurer until the society closed its affairs.

The legality of the association was called in question under the law as it then stood, but, as the court decided in favor of the society, similar societies were formed in other parts of the country, Scotland, Lancashire and South Wales being the districts where they were most popular.

Until the year 1836 they existed simply as joint-stock companies or clubs, constituted by deeds of settlement, and no special legislation affected them prior to that date, when the first Building Societies act was passed. The act went through Parliament almost unnoticed, so that there were no debates and no records as to the number or position of the various societies at that time, but it is believed that they were numerous.

In the United Kingdom the principle of building societies has taken firm hold of the “middle and working classes.” A royal commission was directed to inquire into their operations in 1871; and in 1874, in consequence of the report of the commissioners, an act was passed which is the basis of the present law on the subject. Under this statute, periodical returns and reports are presented to Parliament from which is gleaned that there are about 2,500 societies in existence, with funds and securities exceeding 50,000,000 pounds sterling. The total number of persons interested, directly and indirectly, in these funds probably exceeds half a million.

The Registrar’s Return of Building Societies for 1887, ordered by the House of Commons, shows the following :

Number of societies,	2,318
Number of members,	605,421
Due to shareholders,	£36,313,515
Due to depositors,	£15,606,408
Mortgage assets,	£50,302,684
In cash, etc.,	£3,497,939

In round numbers the mortgage assets of the building societies of England, Ireland, Scotland and Wales, amount to £50,000,000 (two hundred and fifty million dollars).

A Chinese Claim.

Dr. John Henry Gray, in his History of the Laws, Manners and Customs of the people of China * describes some money-lending societies which seem to partake in some measure of the character of building associations, at least in their co-operative and equitable features. He tells us that these societies are called Lee Woee, and were instituted

* London, 1878, vol. 2, page 84.

by a person named Pong Koong, an official of great wealth, who flourished two hundred years B. C., during the Hun dynasty. Some say he was a benevolent man who acted on the principle that it was the duty of the rich to assist the poor. Others, that he instituted them to provide a convenient investment for his money at a fair rate of interest. The rules were: First that the company shall consist of a definite number of persons; that each member shall contribute an equal sum to the fund; that a meeting shall be held at the end of each quarter; that at each meeting all members must attend without regard to the state of the weather; that due notice of the meetings shall be given; that each meeting shall be held at the house of the president of the club, and that the sum contributed to the fund shall be carefully weighed by him. In case of the unavoidable absence of a member, he shall send a substitute. The second rule is that the borrower shall at each meeting pay back an instalment of the loan, with interest, at a rate per month previously agreed upon. The instalment shall be equal to the amount contributed by each individual to the fund in the first instance, the interest to be divided equally among the members of the club.

The third rule is that each member shall at each of the meetings contribute to the fund a sum equal to that which he contributed at the first meeting; that in order to give each an opportunity to borrow the collective amount thus formed, each shall deposit in a lottery box placed on a table, a tender or bid, written in a legible hand, setting forth the additional rate of interest which he is disposed to pay on the amount in question; that the tenders or ballots shall be taken out of the box by the president, and the highest bidder takes the loan. When two make a like bid, the first one bidding takes the loan.

The fourth rule provides for a luncheon after the meeting either at the president's house or at a neighboring tavern. Each member contributing to the expense. The fifth rule provides each member a book containing a copy of the minutes of each meeting, and enforces a fine of two mace per diem on arrears.

These societies are evidently co-operative in form and have many of the features of our present building associations, there being the same equality of burdens and advantages, the equitable distribution of the gains and other details. According to this account the Chinese are about 2,000 years ahead of us in the discovery of this plan of saving and borrowing money.

What They Are.

The building association system in the simpler forms may be made plain in this way. One hundred men, each able to save \$1 a month agree, in order to strengthen each other in their purpose to save, to put their money together at fixed periods and lock it up in a strong box until each shall have accumulated \$200.

It is easy enough to see that if each man is prompt in his payments the strong box will be ready to be opened for a division of the savings at the end of two hundred months, when each share will be worth \$200.

But let it be supposed that as soon as this agreement has been entered into, by which the one hundred men come together monthly and put a dollar each into a common fund, one of the members suggests that, instead of allowing the money to lie idle in the box, they had better put it out at interest each month, putting the securities for its return and the interest into the box as fast as earned.

At a glance the other members see that by acting on this suggestion they will accumulate the \$200 on each share in less than two hundred months, perhaps in one hundred and twenty-six months (see example society), when they will have paid only \$126 each. The suggestion is adopted, and now we have a purely co-operative savings fund or building association, with only one distinguishing feature, and that one of great value—the savings are compulsory and made at stated periods.

The member does not lay aside in this fund his spare cash as humor prompts him, but enters into an obligation to pay so much per month. In this scheme, as thus far developed, we have the essential features of our building and loan associations.

The other branches of business in which they engage, although they give character and name to the associations, are really incidental to the accomplishment of the one grand purpose, that of saving money by co-operation and by compulsory payment into the treasury.

The first problem that presents itself to the directors is, how to use the money collected the first month. The purpose of the society will be destroyed if it is not safely invested. Shall it be put in Government bonds at a low rate of interest, or invested in bond and mortgage, with real estate security at a reasonable rate? If the latter course is adopted, to whom shall it be loaned? George Burton, who is not a member of the society, desires to borrow, but so also does John Dubree, who is a member. If the society lends to John Dubree it will have security additional to that represented by his bond and mortgage—in his stock or deposits, growing in value month by month. To get this additional security for all the money it lends, and at the same time secure a higher rate of interest for its money than could be obtained from Government bonds, the society determines to lend only to members.

Now it appears that other members besides John Dubree want to borrow the first month's collections. How shall it be decided between them? Obviously, the fairest plan is to let them bid one against the other, and lend it to the man who is willing to give the highest premium over and above the fixed or legal rate of interest.

This course is adopted, and the association finds itself in possession

of two sources of profit, interest on loans to its own members and premiums for the prior use of the money collected.

It is manifest now, that instead of requiring two hundred months in which to accumulate in the strong box enough money to divide \$200 per share, it will only take, possibly, one hundred and twenty-six months.

If in the course of time a member should fail to pay his instalment, and this was permitted, the member withholding his deposit and depriving the association of its use will in the end have an advantage over his fellow members.

To check this a fine is imposed when instalments are delayed, that the fine may serve as a penalty as well as to reimburse the association for the loss of the use of the money.

Another member finds that he cannot keep up his payments, or he desires to move to another city. To accommodate him the association agrees to open its strong box before the appointed time, give him what he has paid in, with some portion of the profit already gained and cancel his stock.

Now it is seen that there are, besides saving money and getting interest upon it, several sources of profit, namely: Premiums arising from competition for the loans, penalties for non-payment of dues, and a portion of the profits withheld from members who fail to remain in the association and whose stock is cancelled. And so the features, of a building association are developed.

At last, between 126 and 140 months, and when from \$126 to \$140 have been paid in on each share, the strong box is found to contain securities or money sufficient to divide and give to each share borrower and non-borrower alike \$200 each.

The time has come for the association to be "wound up," technically speaking, each holder of an unborrowed or free share gets \$200 in cash. Each borrower is entitled to his bond and mortgage, so the account is squared by the cancellation of the mortgage.

A Single Series Association.

A terminating, or single series, association is one where all the stock is issued as of one date. Say an association is limited by law to have 5,000 shares. Now, if all these shares are not sold, or, in other words, subscribed for and taken by members at the first meeting, the shares that are afterwards sold to new members are required to be made equal in value with those already issued, by back payments to the amount of the ascertained value of the stock at the time the new members subscribe for it.

Suppose an association has been running one year, it would require a payment of one year's back dues, together with the amount earned that year, and supposing the gain to have been forty-eight cents, this would make \$12.48 for the first year's dues and profits. If the society

had run two years it would require \$24 for the back dues and, say, \$1.92 for the amount earned, making a total of \$25.92 to be paid for new stock at the end of the second year. This process continues from year to year, and of course it becomes more costly and more difficult for a new member to enter as the years move on.

There being but one issue of stock, of course all the shares are of equal value at all times during the life of the association, and when the ultimate value is reached by reason of all the dues paid in and profits combined aggregating \$200 per share the society terminates. When this point is reached the non-borrowers (if any) are paid in full and the borrowers have their mortgages satisfied.

Monthly Cost of Purchasing Homes.

In the example society, it has been shown that it takes 126 months' dues and 127 months' interest to reach the maturity point of \$200.00 per share. The calculations given below may give a clear idea of the monthly cost of purchasing homes on that basis :

Suppose an eight-room house with all modern conveniences is wanted. Such a house would be worth say \$2,500.00 to \$2,800.00, according to location. To buy this house you would need in cash about \$500.00 of your own money and the building association would lend you the balance, say \$2,000.00—the sum that a subscription to 10 shares would permit you to borrow. This would cost you per month :

Subscription to 10 shares, one month,	\$10 00
Interest on \$2,000.00 at six per cent., one month,	10 00
Premium 40 cents per share, one month,	4 00
Taxes, estimated for one month,	2 77
Water rent,	67
Total for one month,	<u>\$27 44</u>

Remember that this house would rent for say \$24.00 per month, and you buy it for a monthly payment of \$3.44 more than you had been paying for rent. This of course takes no account of your own \$500.00 that you used.

Now compare this with a loan of the same amount at six per cent. interest. Take the case of \$2,000.00, and leave out taxes and water rent, which you would have to pay in any event, and the payments are :

Subscriptions to 10 shares,	\$10 00
Interest on \$2,000.00,	10 00
Premium,	4 00
Total,	<u>\$24 00</u>

The stock will mature at the beginning of 127 months and your payments would be \$24.00 per month for 126 months, and \$14.00 for the last or 127th payment, consisting of interest and premium, making a total of \$3,034.00.

Now try the straight mortgage at six per cent. and no premium :

Principal when due,	\$2,000 00
\$2,000 at six per cent. for 127 months,	1,270 00
Total payments,	<u>\$3,270 00</u>
Cost of loan at six per cent interest,	\$3,270 00
Cost by building society plan,	<u>3,034 00</u>
Gain or saving,	<u><u>\$236 00</u></u>

But there is something else besides this saving of \$236.00, namely, the \$2,000.00 of principal money must be paid in a lump. How are you going to get that sum? By the building society plan you have paid off the \$2,000.00 in easy monthly sums of \$24.00 each.

The society compounds its interest monthly, and the profits are credited to the stockholders, which makes it possible for \$1.00 per month for 126 months to increase to \$200.00. Here it is :

One share per month,	\$1 00
One dollar per month for one year,	12 00
One dollar per month for 126 months,	<u>126 00</u>
Par on final value,	\$200 00
Paid in,	<u>126 00</u>
Net gain,	<u><u>\$74 00</u></u>

The net profit on the ten shares is \$740.00, which amount goes a long way towards *reducing* the *interest*. It is to be seen, therefore, the total amount paid in on ten shares is \$1,260.00, for which the society returns \$2,000.00. This would pay off your mortgage if you were a borrower, or you would receive \$2,000.00 in cash if you were not a borrower.

These calculations are based on the assumption that a borrower who places an ordinary mortgage on a house will not faithfully put aside a certain sum of money per month at interest in order to pay off the mortgage when it falls due.

If the borrower could find a place to so invest these instalments, and if he *would* do so, the six per cent. loan (outside) of course would be cheaper than the other, or building society loan, but the very fact that men learned their weakness in this respect years ago—thousands having made numerous attempts to save outside of associations and failed—gave birth to the building society system.

Years of practice having taught many persons to save in a building society even to pay off loans contracted elsewhere, and, while such a plan is selfish, i. e., using the society and not helping it by borrowing from it, yet thousands fail where one succeeds.

The only safe plan to get a mortgage paid off on a small home is to bind one's self to pay it off in regular easy instalments, and to begin the very moment the loan is taken.

How Building Societies are Organized.

The history of a building and loan association organized under the laws of Pennsylvania has been described by *The Building Association and Home Journal*, Philadelphia, for the guidance of those who, without experience in such matters, desire to make a beginning. In States where there is no law providing for the incorporation of such societies, they may be organized and their business transacted through trustees, but an effort should be made to procure the passage of a law similar to that of Pennsylvania, authorizing the incorporation and specifically legalizing the method of transacting business.

One man only is necessary to begin the organization of a building and loan association, but he must possess business energy and an unsullied reputation. Such a man can readily gather about him a dozen or more friends, who, if they approve the scheme, will unite with him in applying for a charter.

The one man must not wait for the dozen to start, he must take the initiative himself. Of the friends he gathers about him, all should be men of unquestioned integrity, and it would be advantageous to have among the number, a conveyancer or lawyer, and a book-keeper. Their bank accounts need not be large; if each can save five dollars a month, they have all the capital required for making a beginning.

When the co-operation of a dozen or more men has been assured, the leader in the movement should call a meeting of those whom he has found willing to subscribe for a definite number of shares of stock. The meeting having been organized by the election of a temporary chairman and secretary, and those present having pledged themselves to subscribe for a definite number of shares, each signing a simple agreement to that effect, a president, vice-president, secretary, treasurer and board of directors, should be selected from the members who have subscribed.

The society is now permanently organized; the president should take the chair, and the secretary immediately proceed to the collection of the dues on the shares subscribed, giving receipts for the same and turning over the amount collected to the treasurer, taking the latter officer's receipt therefor.

The election of permanent officers is sometimes postponed until a second meeting to give a larger number of subscribers an opportunity to vote and be voted for. There is no injustice done, however, when a dozen original members elect themselves the permanent officers of the society, afterwards inviting strangers to subscribe to stock in the society, and it will be found that there is less difficulty in obtaining subscribers when the officers and directors are known, than when everyone is uncertain as to the character of the future management.

The officers and directors should be selected with reference to the special fitness of each for the duties of his office, and the original "one

man " will pay strict attention to this when he sends out his invitations.

The president should be a fairly representative man capable of commanding respect, and the vice-president should have the same qualifications.

The secretary should be a book-keeper or a man conversant with accounts, for the nature of his duties will make him the virtual manager of the society—always of course, under the supervision of the board of directors and the other officers. But if he should be an incompetent accountant, he will, unless a man of considerable experience in building societies, so involve the accounts that none but an expert will be able to disentangle them.

The treasurer should also be familiar with accounts, although his accounts are chiefly personal between himself and the secretary. He should be a responsible man able to give security in a sum of from \$4,000 to \$5,000 for the faithful performance of his duties.

The solicitor, who is sometimes a member of the board of directors, must be a lawyer and conveyancer.

The board of directors will include the above-mentioned officers, and from nine to twelve others. A model board of directors would include one or more capitalists, or men of comparatively large acquaintance with the value of real estate, several house mechanics, and a few merchants. Such a board would always insure the presence of two committees, one of which is of primary importance, and that is the property committee.

It is the duty of the members of that committee to examine real estate offered as security for loans, and if the caution of a capitalist and the knowledge of a builder or house mechanic be combined on that committee, with the representative judgment of a man in active business of another kind, there will be few mistakes made by that committee in its recommendations to the board of directors.

The finance committee is another of no less importance, the members of which are the secretary's deputies, being empowered to receipt for money in the name of the society. They must account for money received to the secretary, and should be men used to the handling of money. If men of undoubted integrity and with these qualifications have been selected for officers and directors they will find little difficulty in securing additional subscribers to the capital stock.

At the first meeting the society should pass a resolution instructing the solicitor to obtain a charter, and appoint a committee to draft by-laws for the government of the society, or by-laws previously prepared by one or more of the original members may be presented and adopted at the first meeting. This is generally the better course for the same reason that it is desirable to elect the officers at the first meeting. The members, in inviting further subscriptions, are enabled to announce not only who will be the officers but what will be the rules

governing the society. The business above assigned to the first meeting may extend over several preliminary meetings, but until it is concluded the society should not begin the collection of monthly dues—that is the organization should date its collections from the first meeting held after all business of organizing has been transacted.

New members will then have no back dues to pay and the organizers who have already paid one dollar on each share will not be required to make another payment until the second meeting after the organization, when new members make their second payments.

The first meeting having adjourned to meet at a definite time, and having rented a hall or other suitable place for all future meetings of the society, the solicitor must proceed in the interim to obtain a charter. For this purpose an application signed by five subscribers of the association is sent to the Governor, stating the number of shares subscribed by each member, the names of officers, etc. The society having obtained its charter is now prepared to transact business under the law of the State and agreeably to its own by-laws.

In the meantime each director of the new society has been canvassing among his friends for subscribers, and has probably obtained one or more additions to the original membership, so that at the first meeting, for the collection of dues, there are perhaps one hundred members subscribing to one thousand shares of stock—many for only one or two shares, some for five, ten or fifteen shares, and a few for forty or fifty shares each. It is desirable that at least five hundred shares should be subscribed.

At the first meeting of the society for the payment of dues the secretary and the finance committee (previously appointed by the president) should be on hand at an early hour to receive and receipt for dues paid in. Small pass books, when ruled for the purpose, make convenient receipt books and should be provided by the management at the first meeting. (An initiation fee, usually about five cents a share, is charged to reimburse the society for its expense in this matter.)

As the members enter the room, they advance in line to the table at which are seated the secretary and members of the finance committee. One or two of these officers write receipts in the books for the money paid, calling out at the time, the number and name of the shareholder paying his dues, and the amount of his payments. These payments are immediately entered by the secretary and one of the members of the finance committee in the duplicate or similar cash books. The members having paid their dues, take their receipt books and either leave the room or stay to attend the meeting held immediately after the collection of dues. A definite hour, say nine o'clock, is generally fixed, at which time the collection of dues ceases, and the president calls the meeting to order. The secretary having read the minutes of preliminary meetings, and all the meetings of the board

of directors, the president is informed that a certain amount of money has been collected and is in the treasury.

The president announcing this to the society, invites bids of premium which would be-borrowers are willing to pay for the priority of loan, explaining to the members that for each share of stock they hold, they may borrow two hundred dollars, and that they may borrow on more shares of stock than they hold by taking additional shares and paying dues thereon.

One member, has, perhaps an opportunity to buy a house, but has scarcely made up his mind to buy it, when the chance of getting the money to do so, on easy terms, presents itself to his mind, and he bids five cents per share premium. Another has a house, but is in pressing need of money for some business purpose he bids six cents; and so the bidding goes on until ten cents is reached when the first bidder abandons the field. But his place is taken by one who has had time to "figure up" the possible purchase of the house he lives in for payments not much greater than he is now making in the shape of rent. He carries the bidding to fifteen cents; and then he stops concluding that he had better take another month to think over it. It seems that the care-worn man of business willing to pledge his house for money to tide him over the present difficulty will get the money after all; but another bidder appears and he confidently offers seventeen cents. He *must* have the money for a mortgage on his house which he had thought would be allowed to rest there forever, and which he had made no provision to meet has been foreclosed. He cannot find a friend able and willing to lend him the money, and capitalists and real estate agents do not want to lend in small amounts, and will not lend without a bonus. Here is a society, however, that offers him the money in any amount he desires (at one dollar per month dues and one dollar per month interest). It too demands a bonus, but a part of that bonus he will get back again, for he is himself one of the lenders participating in the profits arising from the loan granted to himself. Spurred on by his necessity and seeing clearly the advantages of borrowing from the society he bids boldly (and perhaps a little recklessly), and is finally awarded the loan, being the highest bidder. The premium he has agreed to pay may be as high as forty cents per share, and he requires a thousand dollars to pay off the mortgage. He announces the amount that he desires to take and the president, stating that there is no more money to lend adjourns the meeting.

In the meantime, the secretary and the members of the finance committee have counted up the amounts entered on their books as having been paid, and finding the totals agree with the cash on hand—say a thousand dollars, the secretary hands the money to the treasurer, and takes his receipt therefor (and in many societies he also receives

a certificate from the financial committee to the effect that the receipts were so much and that the books agree).

The property committee having received from the borrower a record of the property offered for security, said record being filled up on a blank kept for the purpose, is now instructed to visit the premises offered as security and report at a meeting of the board of directors to be held within a few days.

The meeting of the directors to pass upon loans may be held at the residence of the secretary or other officer, but is usually held at the regular meeting place on a fixed date, say four days after the monthly meeting.

The loan record having been prepared, and the property committee having prepared its report, the directors decide to accept or reject the security offered. A statement of this action is made on the loan record, and if it is favorable, the solicitor is instructed to secure the papers, examine the title to the property and prepare the necessary mortgage. The order for the payment of the money is then drawn, and the mortgage held by the society as security, and having been entered of record, the borrower, having transferred to the society his shares of stock as collateral security for the loan, the order is given to the borrower and paid by the treasurer. In real practice the order is handed to the solicitor who collects the money from the treasurer, and the settlement by all parties is usually made at the office of the solicitor.

How the Borrower is Helped to pay His Loan.

Hundreds of mathematicians engaged to figure and talk for financial institutions conducting business upon different plans of lending money, are daily issuing statements which prove, so they claim, that their particular plan is the best and the cheapest. All these plans, no doubt, have merit, but the poor man who is saving to buy a home of his own cares more for the system which is likely to secure for him that which he is striving to get than he does for a set of figures which present to a mathematical nicety the cost in dollars and cents.

If eight or ten persons, friends or neighbors, have purchased homes through a building and loan association, each one will make great sacrifices to be present at the meeting of the society, with pass-book and dues money in hand, so as to meet the other neighbors, to show them that he is able to pay the instalments as often as they fall due.

It is the association of individuals as partners of a company in which they take a part in the management which stimulates them to keep up their monthly payments, and finally enables them to accomplish their cherished hopes.

The easiest way in appearance is not always the surest way. One way may be represented by a bridge over a stream of water, but the bridge has no protecting side-railings, and the foot passengers *may*

turn to the right or to the left, and be lost before they reach the other shore.

Another plan may be like a never-ending cable, which some brave, strong men have carried across, and with the same firm hold are moving up the hill. Along the line are many others, some strong and bold, and others timid and uncertain; but with those ahead pulling, and those behind speaking words of encouragement, first one and then another passes over the hill and enters the door of his own home. This latter seems to be more like the building society plan of getting on.

Thousands of men have tried, over and over again to save money on the strength of individual resolution, but failures are nearly as numerous as the attempts. Strong-minded men have laughed to scorn the idea that they could not accomplish in their own way, what they had determined to do, but after a number of years wasted they have entered the building society meeting-room, and acknowledged, publicly, that the difference between them and other men was not so great as to free them from the need of that help which their brethren derive from association with those who have a common purpose in view. When the question is reduced or belittled to one of mere dollars and cents the figures may be interesting and really important, but they are valueless unless linked to the moral forces which render practical the attainment of the results shown by the addition of numbers.

Reasons for Joining Them.

Nearly every officer of a building society is able to give reasons, when asked, why he believes in building societies. Below is a sample list of the answers given :

Because I found that a penny saved was a penny gained ; that the three dollars I was paying for rent every week, paid instead to a building society, was in a sense three dollars in my pocket.

Because, having instituted a course of self denial in order to meet my instalments, the habit of saving grew upon me, and by this means I was eventually enabled to open a lucrative business on my own account.

Because, through their agency, I purchased a property which has since greatly increased in value, and is a fair inheritance to leave to my children.

Because, as an investor, it has been my experience to have my subscriptions, after paying in for a few years, returned to me almost doubled in amount.

Because, as a depositor, I receive a fair rate of interest on my easy monthly dues paid in.

Because my children, having witnessed the good results of such connections, have followed my example in so far that they deposit their surplus earnings with a society, and for a consideration which acts as an incentive to further and increased exertions to save.

Because I know that the prosperity of many of my neighbors are attributable to the same beneficent agency.

Because I am certain that the rapid progress and generally flourishing condition of the working people are largely due to the habits of economy and industry fostered by such institutions.

Because of the incalculable misery and destitution they have warded off from the homes of the industrial classes.

Because of their tendency to cut down class distinctions, and to put man and man, the rich and poor, more on a level.

Because, independent of borrowers, investors and depositors, there is no class which they do not benefit; artisans and mechanics, men of every calling, are directly or indirectly assisted by them.

Because, though founded comparatively recently, and in an humble manner, they have made such mighty strides that their ramifications now extend all over the globe.

Because their existence is necessary to the public welfare, as is evidenced by the enormous business they transact.

Because of the thousand advantages offered which are peculiar to themselves, and cannot, consequently, be found elsewhere.

Because all profits realized are distributed among those who, in one way or another, have banded together and assisted in their foundation.

The Cost.

The actual interest cost of a loan depends upon the manner in which the borrower sets aside the money to pay it off when due. When an ordinary loan (not a building society loan), say \$1,000, becomes due the borrower is obliged to have that sum in hand with which to pay it. Now comes the question. How can a poor man possess himself of \$1,000 when that amount is required? The only plan is to begin at the beginning, the very moment the loan is granted, to save so much per week or month.

Suppose he sets aside from his wages \$7.15 per month and places it in a strong box he will have at the end of one hundred and forty months the necessary \$1,000. If the loan is at six per cent. he will have paid \$700 in interest during the same period or \$5 per month, making a grand total of \$1,700. As the money was saved in instalments it is plain to be seen that the loan was paid back to the "strong box" on an average time of seventy months (average time on instalment payments being one-half the full time), and as \$700 interest was paid for \$1,000, which the borrower had the use of for only seventy months, the interest really amounts to twelve per cent. per annum instead of six per cent. The rate of interest (under twelve per cent.) is therefore reduced according to the amount of interest the borrower gains by the judicious investment of the monthly sums he is setting aside to pay off the loan when it falls due.

The building society not only lends the money but at the same time

furnishes a place of investment for the monthly instalments that the borrower is saving for the purpose of paying off his loan when due, and the cost may be presented as follows: Loan for one hundred and forty months (about the time required to mature shares in a building society which receives very little premium) \$1,000.

One hundred and forty monthly payments, at \$5 dues,	\$700 00
One hundred and forty monthly payments, at \$5 interest,	700 00
Total cost,	<u>\$1,400 00</u>

This it will be seen is \$300 less than the cost of an ordinary loan, shown above to be \$1,700. The \$300 represents the amount that has been gained by the monthly investment of the savings in the association.

It has been frequently stated that the "ordinary loan" borrower may get even with the building society borrower by depositing his savings in a building association while he borrows elsewhere, which is true but not strictly honorable, but that is an acknowledgment that the society is a good place from which to get the loan in the first instance. If the outside borrower can gain the necessary \$300 to square the accounts then the cost of one loan is equal to the cost of the other.

CONSTITUTION AND BY-LAWS OF THE BEREAN BUILDING AND LOAN ASSOCIATION.

[The following sample of constitution and by-laws represents what may be considered a model. Several building society experts were called together and agreed upon them as containing the best features of the laws of many societies. They contain more perhaps than is absolutely necessary, but the purpose was to make them as fully explanatory of the business of the societies as possible.—CHIEF OF BUREAU.]

Constitution.

NAME AND OBJECT.

SECTION 1. The name of this association shall be called "THE BEREAN BUILDING AND LOAN ASSOCIATION," and shall have for its object the saving of funds from monthly payments of the members, and the investment thereof, or to be advanced or loaned to members desiring to borrow, to the end that the profits arising from the business thus transacted shall, with the monthly payments, largely reduce the number of months required to make each share worth its par value of two hundred dollars.

STOCKHOLDERS AND CAPITAL STOCK.

SEC. 2. The capital stock of this association shall be one million dollars, and consist of five thousand shares, of the par value of two hundred dollars, to be issued in one or more series, as the board of directors may determine.

SEC. 3. Stockholders of the association shall be citizens of the United States. Minors may hold shares by trustees, and women in their own right.

SEC. 4. Every stockholder or trustee shall sign these laws, by which he or she is obliged to the prompt payment of the monthly dues, premiums, interest and fines, and to the fulfilment of all obligations imposed.

WORKING EXPENSES.

SEC. 5. Each and every stockholder shall pay for every share of this association subscribed for, twenty-five cents entrance fee, and shall also pay at each annual meeting such sum (not exceeding twenty-five cents per share) as shall be determined by the board of directors, to pay the working expenses of the association.

MONTHLY DUES.

SEC. 6. Each stockholder, for each share of stock by him or her held, shall pay one dollar per month in current funds, until the series with which he or she is connected shall have accumulated real assets sufficient to divide to each share the sum of two hundred dollars or its equivalent, based on a division of the profits, giving each dollar invested a like per cent. per annum for the time of investment.

FINES.

SEC. 7. Any stockholder neglecting or refusing to pay his or her monthly dues, interest, or premiums, as the same shall become due, shall pay the additional sum of two cents monthly on each dollar remaining unpaid.

WITHDRAWALS.

SEC. 8. Stockholders who have not received loans may withdraw from the association after thirty days' notice given at a monthly meeting to the board of directors. They shall receive the amount actually paid in as dues, less all fines and other charges, and after the expiration of one year from the issuing of the series in which the stock is held they shall be entitled to the amount of their payments as dues, with such part of the profits as the directors may allow. Not more than one-half of the funds in the treasury shall be used to refund money on withdrawn shares, except by special order of the board of directors.

LOANS (amount per share).

SEC. 9. Each and every stockholder shall be entitled to a loan of two hundred dollars for each and every share which he or she may possess.

LOANS (when to be made).

SEC. 10. If the funds in the treasury admit of a loan, the money shall be offered at a stated meeting, and the stockholder who offers the highest premium shall receive the loan.

PREMIUMS (to be paid monthly).

SEC. 11. The premium in all cases for priority of loan shall be the number of cents per share each month which the borrowing stockholder agrees to pay into the association, together with the regular dues, interest, etc.; and all bidding shall be done openly at the stated meetings of the board of directors.

STOCK LOANS.

SEC. 11. Any member may have an advance or loan, without real estate security, to the amount he or she shall have actually paid in as dues to the association.

COLLATERAL SECURITY.

SEC. 12. For each advance or loan of two hundred dollars per share to a member, at least one share of stock shall be assigned to the association as collateral security.

LIMIT TO BIDDING.

SEC. 13. The successful bidder may take the loan for one or more shares (not exceeding ten shares at one bid) at the same premium, but he may continue bidding if there be more money to sell. If there be not sufficient funds in the treasury, the balance may be supplied from the receipts of subsequent meetings. All successful bidders shall immediately submit a full description of the property offered as security, and such other information as shall be required, and shall secure the repayment of the said loan, with legal interest, by satisfactory bond and mortgage upon real estate in the city of Philadelphia, and with a policy of insurance for an approved amount.

INTEREST AND PREMIUMS TO BE PAID MONTHLY.

SEC. 14. The interest and premiums on all loans shall be paid monthly from the time of bidding for the same.

TIME ALLOWED TO FURNISH SECURITY.

SEC. 15. In the event of a successful bidder failing to offer satisfactory security for the space of one month from the date of purchase, the loan shall revert to the association, and he or she shall be charged with one month's interest on the loan, and all expenses attending the examination of titles, searches, and writings.

POWER TO COMPEL PAYMENTS.

SEC. 16. If the dues, interest, fines, or monthly premiums, or either, which the stockholders agree to pay at the time of purchasing money are suffered to remain unpaid more than six months, the directors may compel payment of principal, interest, fines, and premiums by instituting proceedings on the bond and mortgage, or otherwise, according to law.

FORFEITED SHARES.

The shares of any stockholder or trustee who shall neglect or refuse to pay his or her monthly dues or fines for the period of six months, may be declared forfeited by the board of directors, when the shares shall revert to the association. If such member has not received a loan on the shares he shall be entitled to receive out of the first unappropriated money in the treasury the amount of dues paid into the association, in addition to the profit allowed withdrawing shares of the same series, after deducting all fines and charges on the same.

CHANGE OF SECURITIES.

SEC. 17. In case of a stockholder wishing to change the security offered for his or her loan, he or she may do so without being compelled to repay the money to the association, providing the directors approve of the change.

ONE SERIES KEPT OPEN.

SEC. 18. The directors shall keep one series open at all times for borrowing members, and in case a borrower requires a loan on more shares than were owned by him or her at the time of bidding, the requisite number of shares shall be furnished him or her, the borrower paying all back dues and assessments on such shares.

SALES AND SUBSTITUTION OF SECURITIES.

SEC. 19. Should any stockholder desire to sell a property on which the association has loaned money, transferring to the purchaser all his right, title and interest in the loan granted on his shares, he shall be at liberty to do so if he shall first obtain the consent of the directors to such sale or transfer. No such sale or transfer shall be made until all dues, interest and fines to which the association is then entitled shall have been paid; and the conveyance having been duly executed by the solicitor of the association, the purchaser of the property shall thenceforth become a member of the association, with all the rights, privileges and liabilities in respect to such shares of the member to whom the loan was first granted.

PURCHASE OF PROPERTY.

SEC. 20. The board of directors shall have power to purchase at any sheriff's or other judicial sale, or at any sale, public or private, any real estate or property upon which the association may have or hold mortgage, judgment, lien or other incumbrance, or ground rent, when the interests of the association require it. They also shall have power to sell, convey, lease or mortgage, at pleasure, to any person or persons whatsoever any property of which the association may become possessed.

WHEN MORTGAGES MAY BE SATISFIED.

SEC. 21. When any sale shall take place of a property mortgaged to the association the board of directors shall require the payment of all dues, interest, fines and premiums and charges owing to the association at the time of said sale, before satisfying the bond and mortgage against the property.

PROPERTY COMMITTEE MUST APPROVE.

SEC. 22 No security shall be deemed sufficient until it has been examined by the property committee of directors and approved by a quorum of the board of directors.

NO LOANS OUTSIDE OF PHILADELPHIA.

SEC. 23. No loans shall be made on property outside of the city and county of Philadelphia.

RATE OF INTEREST.

SEC. 24. The interest on loans shall be paid monthly at the rate of one-half of one per cent. per month.

UNPRODUCTIVE FUNDS.

SEC. 25. In case the funds or the association should remain unproductive for one month the board of directors may make investments of the same in real estate, United States bonds or otherwise: *Provided, however,* That no such investment shall be made without the consent of at least two-thirds of the whole board of directors first obtained and expressed in writing.

SALARY AND EXPENSES.

SEC. 26. The salary of the secretary shall be fixed by the board of directors from time to time and paid monthly, and all other expenses for books, printing, etc., can only be made with the approval of the board of directors.

LOANS MAY BE REPAID IN DRIBLETS.

SEC. 27. Stockholders who have received one or more loans of \$200 of this associations can refund one or more of the same at any time.

SHARES PLEDGED FOR SECURITY.

SEC. 28. When a loan is repaid the share or shares originally transferred to the association as collateral security may be transferred to said stockholder, or may be withdrawn in the same manner as free shares.

DECEASED MEMBERS' STOCK.

SEC. 29. Upon the death of a stockholder, his or her legal representatives may assume the future payments on the stock, or may withdraw the same as other shares are withdrawn.

REISSUE OF SHARES.

SEC. 30. New shares of stock may be issued in lieu of all shares withdrawn, forfeited, or which have reverted to the association.

INVOLUNTARY WITHDRAWALS.

SEC. 31. The directors, whenever it shall appear necessary to make a reduction of the shares not loaned upon in any series as it approaches maturity, may by a two-third vote compel the redemption of shares in the series; but such redemption shall be made by calling in from each shareholder in the series, as may be necessary, pro-rated upon the number he or she may hold.

OFFICERS AND THEIR DUTIES.

SEC. 32. The officers of this association shall be a president, vice president, treasurer, secretary, solicitor and thirteen directors, who must all be stockholders, and who shall be elected at the annual meetings. In case of a vacancy occurring in any of these offices by the death, resignation, or otherwise, such offices so vacated shall be filled by the board of directors until the next election. All the officers shall continue in office until their successors are duly elected.

PRESIDENT.

SEC. 33. It shall be the duty of the president to preside at the meetings of the association and of the board of directors, and to sign all orders on the treasurer for the payment of money, when ordered by the Board of Directors, and to perform all other duties appertaining to his office.

VICE PRESIDENT.

SEC. 34. It shall be the duty of the vice president to assist the president in the discharge of his duties, and officiate for him in his absence.

TREASURER.

SEC. 35. It shall be the duty of the treasurer to receive all moneys paid into the association, and give receipts for the same to the secretary; to pay all orders drawn upon the treasury by order of the board of directors, when signed by the president and attested by the secretary, and none other. He shall, for the faithful performance of his duty, give mortgage bond or other security to the satisfaction of the board of directors, and shall renew the same when required to do so by the board. He shall receive and hold in trust for the association all bonds, mortgages, and policies of insurance, etc., on all property on which money is loaned by the association, except securities given by himself, which shall be held by the president. It shall be his duty, when empowered by the board of directors, to give release and acquittance for all sums of money which shall be paid to the association upon any bond, bill, note, mortgage, or other security, and, if necessary, acknowledge satisfaction of the same on record; and he shall, at the expiration of his term of service, deliver over to his successor in office all moneys, books, papers, etc., belonging to the association that may be in his possession.

SECRETARY.

SEC. 36. It shall be the duty of the secretary to keep accurate minute of the proceedings of the association and of the board of directors, and record the same in a book or books to be kept for that purpose. He shall keep accurate accounts with all the stockholders; attest all orders drawn on the treasurer for the payment of money, when so ordered by the board of directors and signed by the president. He shall notify the stockholders of the annual and special meetings, and also notify the directors of their monthly meetings, at the expense of the association. He shall have in charge all the books and papers (except bonds, mortgages, and policies of insurance) belonging to the association, and deliver the same to his successor in office at least ten days before the next monthly meeting. He shall be prepared at all times to inform stockholders of the state of the financial affairs of the association, and at the yearly meetings furnish a detailed statement of the finances. He shall keep a record of all loans made by the association upon property where there is a prior incumbrance, and require members receiving such loans to produce the receipts for the interest on such prior incumbrance every six months, and within thirty days after such interest may be due, and shall notify the board of directors of any default on the part of the members thereof. He shall receive as compensation for his services such sums, payable monthly, as the board of directors may deem proper.

BOARD OF DIRECTORS.

SEC. 37. The directors, together with the president, vice president, secretary, solicitor and treasurer shall form a board of directors. It shall be their duty to meet statedly on the fourth Thursday of each and every month, at such places as they or a majority of them shall appoint, for the purpose of receiving from the stockholders their monthly dues, interest, premiums and fines, and to pay the same into the treasury; loan out the funds; see to their safe investment; and attend to the financial affairs of the association generally.

The directors shall receive no compensation for their services. Seven members of the board shall constitute a quorum for the transaction of business.

They shall make all laws for their own government not inconsistent with the charter and by-laws.

They may appoint a competent conveyancer for the association, whose term of service shall be at the pleasure of the board.

CONVEYANCER.

SEC. 38. The conveyancer shall examine all title papers, and procure the necessary searches for property offered to the association as security for money loaned or otherwise, and certify the result in writing. He shall prepare all bonds, mortgages, agreements, and other writings of a legal nature to be giving or taken by the association, and shall be entitled to receive from the party dealing with the association the usual customary compensation. All disputes as to the amount of his charges and disbursements shall be settled by the board of directors. It shall also be the duty of this of-

ficer to examine the descriptions of the properties advertised to be sold by the sheriff, and if there be any against which the association has a claim, to report the same to the board of directors immediately. He shall also be required to attend the monthly meetings of the board of directors.

ELECTIONS.

SEC. 39. All the elections of stockholders shall be by ballot. The polls shall be open from 8 to 9.30 o'clock P. M.

RIGHT TO VOTE.

SEC. 40. Each stockholder who is personally present at an election has the right to cast one vote, regardless of the number of shares owned by said stockholder. No member shall be entitled to vote who has not been a stockholder at least one month.

AUDITORS.

SEC. 41. There shall be elected annually from among the stockholders (and not members of the board of directors) three auditors, to perform the duties usually devolving upon such officers, and to serve during the ensuing year. The directors shall have power to reward the auditors for their service.

THE ANNUAL AND OTHER MEETINGS.—ANNUAL MEETINGS.

SEC. 42. The annual meetings of the stockholders shall be held on the fourth Thursday of February, in each and every year, at such place as the board of directors may designate.

STATED MEETINGS.

SEC. 43. Stated monthly meetings of the board of directors shall be held on the fourth Thursday of each month, at 8 o'clock P. M., for the purpose of receiving from stockholders the moneys due the association, loan the money in the treasury, and transact all other necessary business relating to the association. These meetings shall be open to stockholders, and the minutes of the proceedings of the board of directors shall be open to their inspection.

NOTICE OF MEETINGS.

SEC. 44. Notice of the annual and special meetings of stockholders shall be published by the secretary in at least two of the daily papers of the city of Philadelphia. Special meetings shall be at the written request of ten members, stating the time, place, and object of such meeting. No business shall be transacted at special meetings, except that for which the meeting was called. Fifteen members shall constitute a quorum of a meeting of stockholders.

NOMINATIONS.

SEC. 45. At the stated meeting in January of each year nominations for officers of the association shall be made; and at the election to be held on the succeeding February, none but persons nominated at the said January meeting shall be eligible for election, and the candidates receiving the highest number of votes polled shall be declared elected.

AMENDMENTS.

SEC. 46. These laws may be altered or amended at an annual or special meeting of the stockholders, and only by a vote of at least two-thirds of the members present: *Provided*, The amendment or alterations shall have been submitted in writing, and entered on the minutes one month previous to action thereon.

THE PRACTICAL BUSINESS.

The practical work of a building association, which is a system of accounts, can best be shown by presenting to the student the accounts of a theorectical society in which each member becomes a borrower.

Let it be supposed that an association has been formed by 126 persons, some of whom agree to pay \$5.00 per month, a few persons \$10.00 per month and several others \$15.00 per month, all combined paying in \$1,000.00 per month. Each monthly payment of \$1.00 per month will represent what is called "one share," and the association is to close up its affairs when each share becomes worth \$200.00, or a total for the 1,000 shares \$200,000.00. Every member paying in \$5.00 per month will have five shares, those paying in \$10.00 per month will have ten shares and those paying in \$15.00 per month will have fifteen shares. It is agreed by the members of this association, that the members according to their numerical order on the books shall borrow the funds as soon as there is sufficient accumulation thereof from month to month to enable them to take out \$200.00 for each share they own. It is agreed also that in addition to the \$1.00 per month for dues, that each \$200.00 borrowed shall pay \$1.00 per month interest and also a premium of 40 cents.

It will be seen that the income for the first meeting night is \$1,000.00. This \$1,000.00 is handed to the member who stands No. 1 on the list, for which he gives the company real estate security. At the beginning of the second month member No. 1 will owe as follows :

Dues on 5 shares,	\$5 00
Interest on 5 shares,	5 00
Premium on 5 shares,	2 00
Total,	<u>\$12 00</u>

At the beginning of the second month the total income is as follows:

Dues,	\$1,000 00
Interest,	5 00
Premiums,	2 00
Total,	<u>\$1,007 00</u>

At this second meeting No. 2 borrows \$1,000.00, and at the beginning of the third month No. 2 must pay :

Dues on 5 shares,	\$5 00
Interest on 5 shares,	5 00
Premiums on 5 shares,	2 00
Total,	<u>\$12 00</u>

For twenty-three months only \$1,000 can be loaned per month. The interest and premium accumulating during this time makes up over \$1,000, which, added to the \$1,000 dues received in the twenty-fourth month, enables the society to then lend \$2,000.

At this rate it takes twenty-four months before the accumulation of the interest and premium is sufficient to lend \$2,000.00, when No. 24 on the list takes that much.

The following statement will show clearly how the money comes in and how it is paid out :

FIRST YEAR.	Dues paid in.	Interest paid in.	Premiums paid in.	Amount loaned to borrowers.	Shares borrowed on.
First month,	\$1,000 00	. . . . .	. . . . .	\$1,000 00	5
Second month,	1,000 00	\$5 00	\$2 00	1,000 00	5
Third month,	1,000 00	10 00	4 00	1,000 00	5
Fourth month,	1,000 00	15 00	6 00	1,000 00	5
Fifth month,	1,000 00	20 00	8 00	1,000 00	5
Sixth month,	1,000 00	25 00	10 00	1,000 00	5
Seventh month,	1,000 00	30 00	12 00	1,000 00	5
Eighth month,	1,000 00	35 00	14 00	1,000 00	5
Ninth month,	1,000 00	40 00	16 00	1,000 00	5
Tenth month,	1,000 00	45 00	18 00	1,000 00	5
Eleventh month,	1,000 00	50 00	20 00	1,000 00	5
Twelfth month,	1,000 00	55 00	22 00	1,000 00	5
	\$12,000 00	\$330 00	\$132 00	\$12,000 00	60

First Annual Report.

FEBRUARY.

Cash Receipts.

From dues,	\$12,000 00	
From interest,	330 00	
From premiums,	132 00	
		\$12,462 00

Disbursements.

For loans,	12,000 00
Cash balance,	\$462 00

Assets.

Mortgages,	\$12,000 00	
Cash,	462 00	
*Accrued interest for January,	60 00	
*Accrued premiums for January,	24 00	
		\$12,546 00

Liabilities and Credits.

Amount paid in,	12,000 00
Gain,	\$546 00
Gain on one thousand shares at fifty-four cents per share,	540 00
Undivided,	\$6 00

Value of Each Share.

Paid in,	\$12 00
Gain,	54
Total value of each share	\$12 54

	Shares.	
Borrowed on,		60
Free,		940
		<u>1,000</u>

* NOTE. "Accrued Interest" and "Accrued Premiums" are the interest and premiums due on the night of the annual meeting. A society, say, begins business January 1st, and lends \$10,000. One year's interest would be \$600, the borrower pays as follows: February, \$50; March, \$50; April, \$50; May, \$50; June, \$50; July, \$50; August, \$50; September, \$50; October, \$50; November, \$50 and December, \$50. He has now paid \$550 in interest. At the January meeting he will owe \$50, but between December and January the report is issued, so as to be presented at the January meeting. The report will be dated January 1st, and unless it shows in the assets the \$50 due January 1st, but not collected, it is just as erroneous as if one of the mortgages had been omitted. Precisely the same remarks are true concerning the premiums. The reader is referred to the thirteenth month in the following tables, which shows \$60.00 interest, and \$24.00 premiums collected the 1st day of the thirteenth month. These being the interest and premiums accruing between the 1st day of the twelfth month and the first day of the thirteenth month, of necessity belong to the gains of the first year. It is perhaps proper to say here that whilst the "dues" are collected in advance, "interest," and "premiums" are collected only when due.

SECOND YEAR.	Dues paid in.	Interest paid in.	Premiums paid in.	Amount loaned to borrowers.	Shares borrowed on.
Brought forward, . . .	\$12,000 00	\$330 00	\$132 00	\$12,000 00	60
Thirteenth month, . . .	1,000 00	60 00	24 00	1,000 00	5
Fourteenth month, . . .	1,000 00	65 00	26 00	1,000 00	5
Fifteenth month, . . .	1,000 00	70 00	28 00	1,000 00	5
Sixteenth month, . . .	1,000 00	75 00	30 00	1,000 00	5
Seventeenth month, . .	1,000 00	80 00	32 00	1,000 00	5
Eighteenth month, . . .	1,000 00	85 00	34 00	1,000 00	5
Nineteenth month, . . .	1,000 00	90 00	36 06	1,000 00	5
Twentieth month, . . .	1,000 00	95 00	38 00	1,000 00	5
Twenty-first month, . .	1,000 00	100 00	40 00	1,000 00	5
Twenty-second month, .	1,000 00	105 00	42 00	1,000 00	5
Twenty-third month, . .	1,000 00	110 00	44 00	1,000 00	5
Twenty-fourth month, .	1,000 00	115 00	46 00	2,000 00	10
For year, ,	\$12,000 00	\$1,050 00	\$420 00	\$13,000 00	65
Total,	\$24,000 00	\$1,380 00	\$552 00	\$25,000 00	125

Second Annual Report.

FEBRUARY.

Cash receipts.

From last report,	\$462 00
From dues,	12,000 00
From interest,	1,050 00
From premiums,	420 00
	<u>\$13,932 00</u>

Disbursements.

For loans,	\$13,000 00
	<u>\$932 00</u>

<i>Assets.</i>	
Mortgages,	\$25,000 00
Cash,	932 00
Accrued interest,	125 00
Accrued premiums,	50 00
	<u>\$26,007 00</u>
<i>Liabilities and credit.</i>	
Amount paid in,	\$24,000 00
Gain,	\$2,007 00
Gain on one thousand shares, \$2.00 per share,	2,000 00
	<u>\$7 00</u>
<i>Value of each share.</i>	
Paid in,	\$24 00
Gain,	2 00
	<u>\$26 00</u>
<i>Shares.</i>	
Borrowed on,	125
Free,	875
	<u>1,000</u>

THIRD YEAR.	Dues paid in.	Interest paid in.	Premiums paid in.	Amount loaned to borrowers.	Shares borrowed on.
<i>Brought forward, . . .</i>	\$24,000 00	\$1,380 00	\$552 00	\$25,000 00	125
Twenty-fifth month, . . .	1,000 00	125 00	50 00	2,000 00	10
Twenty-sixth month, . . .	1,000 00	135 00	54 00	1,000 00	5
Twenty-seventh month, . .	1,000 00	140 00	56 00	1,000 00	5
Twenty-eighth month, . .	1,000 00	145 00	58 00	1,000 00	5
Twenty-ninth month, . .	1,000 00	150 00	60 00	1,000 00	5
Thirtieth month,	1,000 00	155 00	62 00	2,000 00	10
Thirty-first month,	1,000 00	165 00	66 00	1,000 00	5
Thirty-second month, . . .	1,000 00	170 00	68 00	1,000 00	5
Thirty-third month,	1,000 00	175 00	70 00	1,000 00	5
Thirty-fourth month, . . .	1,000 00	180 00	72 00	2,000 00	10
Thirty-fifth month,	1,000 00	190 00	76 00	1,000 00	5
Thirty-sixth month,	1,000 00	195 00	78 00	1,000 00	5
For year,	\$12,000 00	\$1,925 00	\$770 00	\$15,000 00	75
Total,	\$36,000 00	\$3,305 00	\$1,322 00	\$40,000 00	200

Third Annual Report.	
FEBRUARY.	
<i>Cash Receipts.</i>	
From last report,	\$932 00
From dues,	12,000 00
From interest,	1,925 00
From premiums,	770 00
	<u>\$15,627 00</u>
<i>Disbursements.</i>	
For loans,	15,000 00
Cash balance,	<u>\$627 00</u>

Assets.	
Mortgages,	\$40,000 00
Cash,	627 00
Accrued interest,	200 00
Accrued premiums,	80 00
	<u>\$40,907 00</u>
Liabilities and Credits.	
Amount paid in,	36,000 00
Gain,	\$4,907 00
Gain on one thousand shares, \$4.90 per share,	4,900 00
Undivided,	<u>\$7 00</u>
Value of each share.	
Paid in,	\$36 60
Gain,	4 90
	<u>\$40 90</u>
Shares.	
Borrowed on,	200
Free,	800
	<u>1,000</u>

FOURTH YEAR.	Dues paid in.	Interest paid in.	Premiums paid in.	Amount loaned to borrowers.	Shares borrowed on.
Brought forward,	\$36,000 00	\$3,305 00	\$1,322 00	\$40,000 00	200
Thirty-seventh month,	1,000 00	200 00	80 00	1,000 00	5
Thirty-eighth month,	1,000 00	205 00	82 00	2,000 00	10
Thirty-ninth month,	1,000 00	215 00	86 00	1,000 00	5
Fortieth month,	1,000 00	220 00	88 00	1,000 00	5
Forty-first month,	1,000 00	225 00	90 00	2,000 00	10
Forty-second month,	1,000 00	235 00	94 00	1,000 00	5
Forty-third month,	1,000 00	240 00	96 00	1,000 00	5
Forty-fourth month,	1,000 00	245 00	98 00	2,000 00	10
Forty-fifth month,	1,000 00	255 00	102 00	1,000 00	5
Forty-sixth month,	1,000 00	260 00	104 00	1,000 00	5
Forty-seventh month,	1,000 00	265 00	106 00	2,000 00	10
Forty-eighth month,	1,000 00	275 00	110 00	1,000 00	5
For y ar,	\$12,000 00	\$2,840 00	\$1,136 00	\$16,000 00	80
Total,	\$48,000 00	\$6,145 00	\$2,458 00	\$56,000 00	280

Fourth Annual Report.

FEBRUARY.

Cash receipts.	
From last report,	\$627 00
From dues,	12,000 00
From interest,	2,840 00
From premiums,	1,136 00
	<u>\$16,603 00</u>
Disbursements.	
For loans,	16,000 00
Cash balance,	<u>\$603 00</u>

Assets.	
Mortgages,	\$56,000 00
Cash,	603 00
Accrued interest,	280 00
Accrued premiums,	112 00
	<u>\$56,995 00</u>
Liabilities and credits.	
Amount paid in,	48,000 00
Gain,	\$8,995 00
Gain on one thousand shares, \$8.99 per share,	8,990 00
	<u>\$5 00</u>
Value of Each share.	
Paid in,	\$48 00
Gain,	8 99
	<u>\$56 99</u>
Shares.	
Borrowed on,	280
Free,	720
	<u>1,000</u>

SIXTH YEAR.	Dues paid in.	Interest paid in.	Premiums paid in.	Amount loaned to borrowers.	Shares borrowed on.
Brought forward,	\$48,000	\$6,145	\$2,458	\$56,000	280
Forty-ninth month,	1,000	280	112	1,000	5
Fiftieth month,	1,000	285	114	2,000	10
Fifty-first month,	1,000	295	118	1,000	5
Fifty-second month,	1,000	300	120	2,000	10
Fifty-third month,	1,000	310	124	1,000	5
Fifty-fourth month,	1,000	315	126	2,000	10
Fifty-fifth month,	1,000	325	130	1,000	5
Fifty-sixth month,	1,000	330	132	2,000	10
Fifty-seventh month,	1,000	340	136	1,000	5
Fifty-eighth month,	1,000	345	138	1,000	5
Fifty-ninth month,	1,000	350	140	2,000	10
Sixtieth month,	1,000	360	144	1,000	5
For year,	\$12,000	\$3,835	\$1,534	\$17,000	85
Total,	\$60,000	\$9,980	\$3,992	\$73,000	365

Fifth Annual Report.

FEBRUARY.

Cash Receipts.

From last report,	\$603 00
From dues,	12,000 00
From interest,	3,835 00
From premiums,	1,534 00
	<u>\$17,972 00</u>

Disbursements.

For loans,	17,000 00
Cash balance,	<u>\$972 00</u>

<i>Assets.</i>	
Mortgages,	\$73,000 00
Cash,	972 00
Accrued interest,	365 00
Accrued premiums,	146 00
	<hr/> \$74,483 00
<i>Liabilities and Credits.</i>	
Amount paid in,	60,000 00
Gain,	\$14,483 00
Gain on one thousand shares, \$14.48 per share,	14,480 00
Undivided,	<hr/> \$3 00
<i>Value of Each Share.</i>	
Paid in,	\$60 00
Gain,	14 48
	<hr/> \$74 48
<i>Shares.</i>	
Borrowed on,	365
Free,	635
	<hr/> 1,000

SIXTH YEAR.	Dues paid in.	Interest paid in.	Premiums paid in.	Amount loaned to borrowers.	Shares borrowed on.
<i>Brought forward,</i>	\$60,000 00	\$9,980 00	\$3,992 00	\$73,000 00	365
Sixty-first month,	1,000 00	365 00	146 00	2,000 00	10
Sixty-second month,	1,000 00	375 00	150 00	2,000 00	10
Sixty-third month,	1,000 00	385 00	154 00	1,000 00	5
Sixty-fourth month,	1,000 00	390 00	156 00	2,000 00	10
Sixty-fifth month,	1,000 00	400 00	160 00	1,000 00	5
Sixty-sixth month,	1,000 00	405 00	162 00	2,000 00	10
Sixty-seventh month,	1,000 00	415 00	166 00	1,000 00	5
Sixty-eighth month,	1,000 00	420 00	168 00	2,000 00	10
Sixty-ninth month,	1,000 00	430 00	172 00	1,000 00	5
Seventieth month,	1,000 00	435 00	174 00	2,000 00	10
Seventy-first month,	1,000 00	445 00	178 00	2,000 00	10
Seventy-second month,	1,000 00	455 00	182 00	1,000 00	5
For year,	\$12,000 00	\$4,920 00	\$1,968 00	\$19,000 00	95
Total,	\$72,000 00	\$14,900 00	\$5,960 00	\$92,000 00	460

Sixth Annual Report.
FEBRUARY.

<i>Cash Receipts.</i>	
From last report,	\$972 00
From dues,	12,000 00
From interest,	4,920 00
From premiums,	1,968 00
	<hr/> \$19,860 00
<i>Disbursements.</i>	
For loans,	19,000 00
Cash balance,	<hr/> \$860 00

<i>Assets.</i>	
Mortgages,	\$92,000 00
Cash,	860 00
Accrued interest,	460 00
Accrued premiums,	184 00
	<hr/> \$93,504 00
<i>Liabilities and Credits.</i>	
Amount paid in,	72,000 00
Gain,	\$21,504 00
Gain on one thousand shares, \$21.50 per share,	21,500 00
	<hr/>
Undivided,	<hr/> \$4 00
<i>Value of Each Share.</i>	
Paid in,	\$72 00
Gain,	21 50
	<hr/>
	<hr/> \$93 50
<i>Shares.</i>	
Borrowed on,	460
Free,	540
	<hr/>
	<hr/> 1,000

SEVENTH YEAR.	Dues paid in.	Interest paid in.	Premiums paid in.	Amount loaned to borrowers.	Shares borrowed on.
<i>Brought forward, . . .</i>	\$72,000 00	\$14,900 00	\$5,960 00	\$92,000 00	460
Seventy-third month, . . .	1,000 00	460 00	184 00	2,000 00	10
Seventy-fourth month, . .	1,000 00	470 00	188 00	2,000 00	10
Seventy-fifth month, . . .	1,000 00	480 00	192 00	1,000 00	5
Seventy-sixth month, . . .	1,000 00	485 00	194 00	2,000 00	10
Seventy-seventh month, . .	1,000 00	495 00	198 00	2,000 00	10
Seventy-eighth month, . .	1,000 00	505 00	202 00	1,000 00	5
Seventy-ninth month, . . .	1,000 00	510 00	204 00	2,000 00	10
Eightieth month,	1,000 00	520 00	208 00	2,000 00	10
Eighty-first month,	1,000 00	530 00	212 00	2,000 00	10
Eighty-second month, . . .	1,000 00	540 00	216 00	1,000 00	5
Eighty-third month,	1,000 00	545 00	218 00	2,000 00	10
Eighty-fourth month, . . .	1,000 00	555 00	222 00	2,000 00	10
For year,	\$12,000 00	\$6,095 00	\$2,438 00	\$21,000 00	105
Total,	\$84,000 00	\$20,995 00	\$8,398 00	\$113,000 00	565

Seventh Annual Report.

FEBRUARY.

<i>Cash receipts.</i>	
From last report,	\$860 00
From dues,	12,000 00
From interest,	6,095 00
From premiums,	2,438 00
	<hr/> \$21,393 00
<i>Disbursements.</i>	
For loans,	21,000 00
	<hr/>
Cash balance,	<hr/> \$393 00

Assets.	
Mortgages,	\$113,000 00
Cash,	393 00
Accrued interest,	565 00
Accrued premiums,	226 00
	<hr/> \$114,184 00

Liabilities and credits.	
Amount paid in,	84,000 00
Gain,	<hr/> \$30,184 00
Gain on one thousand shares, \$30.18 per share,	30,180 00
Undivided,	<hr/> \$4 00

Value of Each share.	
Paid in,	\$84 00
Gain,	30 18
	<hr/> \$114 18

Shares.	
Borrowed on,	565
Free,	435
	<hr/> 1,000

EIGHTH YEAR.	Dues paid in.	Interest paid in.	Premiums paid in.	Amount loaned to borrowers.	Shares borrowed on.
Brought forward,	\$84,000 00	\$20,995 00	\$8,398 00	\$113 000 00	565
Eighty-fifth month,	1,000 00	565 00	226 00	2,000 00	10
Eighty-sixth month,	1,000 00	575 00	230 00	1,000 00	5
Eighty-seventh month,	1,000 00	580 00	232 00	2,000 00	10
Eighty-eighth month,	1,000 00	590 00	236 00	2,000 00	10
Eighty-ninth month,	1,000 00	600 00	240 00	2,000 00	10
Ninetieth month,	1,000 00	610 00	244 00	2,000 00	10
Ninety-first month,	1,000 00	620 00	248 00	2,000 00	10
Ninety-second month,	1,000 00	630 00	252 00	1,000 00	5
Ninety-third month,	1,000 00	635 00	254 00	2,000 00	10
Ninety-fourth month,	1,000 00	645 00	258 00	2,000 00	10
Ninety-fifth month,	1,000 00	655 00	262 00	2,000 00	10
Ninety-sixth month,	1,000 00	665 00	266 00	2,000 00	10
For year,	\$12,000 00	\$7,370 00	\$2,948 00	\$22,000 00	110
Total,	\$96,000 00	\$28,365 00	\$11,346 00	\$135,000 00	675

Eighth Annual Report.

FEBRUARY.

Cash Receipts.	
From last report,	\$393 00
From dues,	12,000 00
From interest,	7,370 00
From premiums,	2,948 00
	<hr/> \$22,711 00

Disbursements.	
For loans,	22,000 00
Cash balance,	<hr/> \$711 00

Assets.	
Mortgages,	\$135,000 00
Cash,	711 00
Accrued interest,	675 00
Accrued premiums,	270 00
	<u>\$136,656 00</u>

Liabilities and Credits.	
Amount paid in,	96,000 00
Gain,	\$40,656 00
Gain on one thousand shares, \$40.65 per share,	40,650 00
Undivided,	<u>\$6 00</u>

Value of Shares.	
Paid in,	\$96 00
Gain,	40 65
	<u>\$136 65</u>

Shares.	
Borrowed on,	675
Free,	325
	<u>\$1,000</u>

NINTH YEAR.	Dues paid in.	Interest paid in.	Premiums paid in.	Amount loaned to borrowers.	Shares borrowed on.
Brought forward, . .	\$96,000 00	\$28,365 00	\$11,346 00	\$135,000 00	675
97th month,	1,000 00	675 00	270 00	2,000 00	10
98th month,	1,000 00	685 00	274 00	2,000 00	10
99th month,	1,000 00	695 00	278 00	2,000 00	10
100th month,	1,000 00	705 00	282 00	2,000 00	10
101st month,	1,000 00	715 00	286 00	2,000 00	10
102d month,	1,000 00	725 00	290 00	2,000 00	10
103d month,	1,000 00	735 00	294 00	2,000 00	10
104th month,	1,000 00	745 00	298 00	2,000 00	10
105th month,	1,000 00	755 00	302 00	2,000 00	10
106th month,	1,000 00	765 00	306 00	2,000 00	10
107th month,	1,000 00	775 00	310 00	2,000 00	10
108th month,	1,000 00	785 00	314 00	2,000 00	10
For year,	\$12,000 00	\$8,760 00	\$3,504 00	\$24,000 00	120
Total,	\$108,000 00	\$37,125 00	\$14,850 00	\$159,000 00	795

Ninth Annual Report.	
FEBRUARY.	
Cash Receipts.	
From last report,	\$711 00
From dues,	12,000 00
From interest,	8,760 00
From premiums,	3,504 00
	<u>\$24,975 00</u>
Disbursements.	
For loans,	24,000 00
Cash balance,	<u>\$975 00</u>

<i>Assets.</i>	
Mortgages,	\$159,000 00
Cash,	975 00
Accrued interest,	795 00
Accrued premiums,	318 00
	<hr/> \$161,088 00
<i>Liabilities and Credits.</i>	
Amount paid in,	108,000 00
	<hr/>
Gain,	\$53,088 00
Gain on one thousand shares, \$53.08 per share,	53,080 00
	<hr/>
Undivided,	<u><u>\$8 00</u></u>
<i>Value of each Share.</i>	
Paid in,	\$108 00
Gain,	53 08
	<hr/> \$161 08
<i>Shares.</i>	
Borrowed on,	795
Free,	205
	<hr/> 1,000

TENTH YEAR.	Dues paid in.	Interest paid in.	Premiums paid in.	Amount loaned to borrowers.	Shares borrowed on.
<i>Brought forward,</i> . . .	\$108,000 00	\$37,125 00	\$14,855 00	\$159,000 00	795
109th month,	1,000 00	795 00	318 00	3,000 00	15
110th month,	1,000 00	810 00	324 00	2,000 00	10
111th month,	1,000 00	820 00	328 00	2,000 00	10
112th month,	1,000 00	830 00	332 00	2,000 00	10
113th month,	1,000 00	840 00	336 00	2,000 00	10
114th month,	1,000 00	850 00	340 00	2,000 00	10
115th month,	1,000 00	860 00	344 00	3,000 00	15
116th month,	1,000 00	875 00	350 00	2,000 00	10
117th month,	1,000 00	885 00	354 00	2,000 00	10
118th month,	1,000 00	895 00	358 00	2,000 00	10
119th month,	1,000 00	905 00	362 00	3,000 00	15
120th month,	1,000 00	920 00	368 00	2,000 00	10
For year,	\$12,000 00	\$10,285 00	\$4,114 00	\$27,000 00	135
Total,	\$120,000 00	\$47,410 00	\$18,964 00	\$186,000 00	930

Tenth Annual Report.

、 FEBRUARY.

Cash Receipts.

From last report,	\$975 00
From dues,	12,000 00
From interest,	10,285 00
From premiums,	4,114 00
	<hr/> \$27,374 00

Disbursements.

For loans,	27,000 00
	<hr/>
Cash balance,	<u><u>\$374 00</u></u>

Assets.	
Mortgages,	\$186,000 00
Cash,	374 00
Accrued interest,	930 00
Accrued premiums,	372 00
	<hr/> \$187,676 00
Liabilities and Credits.	
Amount paid in,	120,000 00
Gain,	\$67,676 00
Gain on one thousand shares, \$67.67 per share,	67,670 00
	<hr/>
Undivided,	<hr/> \$6 00 <hr/>
Value of each Share.	
Paid in,	\$120 00
Gain,	67 67
	<hr/> \$187 67 <hr/>
Shares.	
Borrowed on,	930
Free,	30
	<hr/> 1,000 <hr/>

ELEVENTH YEAR.	Dues paid in.	Interest paid in.	Premiums paid in.	Amount loaned to borrowers.	Shares borrowed on.
Brought forward,	\$120,000 00	\$47,410 00	\$18,964 00	\$186,000 00	930
121st month,	1,000 00	930 00	372 00	2,000 00	10
122d month,	1,000 00	940 00	376 00	2,000 00	10
123d month,	1,000 00	950 00	380 00	3,000 00	15
124th month,	1,000 00	965 00	386 00	2,000 00	10
125th month,	1,000 00	975 00	390 00	3,000 00	15
126th month,	1,000 00	990 00	396 00	2,000 00	10
127th month, . . . . .	. . . . .	1,000 00	400 00	. . . . .	. . . . .
For seven months,	<hr/> \$6,000 00	<hr/> \$6,750 00	<hr/> \$2,700 00	<hr/> \$14,000 00	<hr/> 70
Total,	<hr/> \$126,000 00	<hr/> \$54,160 00	<hr/> \$21,664 00	<hr/> \$200,000 00	<hr/> 1,000 <hr/>

Report.	
ONE HUNDRED AND TWENTY-SIXTH MONTH.	
Cash receipts.	
From dues,	\$374 00
From interest,	6,000 00
From premiums,	5,750 00
	<hr/> \$14,424 00
Disbursements.	
For loans,	14,000 00
Cash balance,	<hr/> \$424 00 <hr/>

Assets.

Mortgages,	\$200,000 00	
Cash,	424 00	
Accrued interest,	1,000 00	
Accrued premiums,	400 00	
		<hr/>
		\$201,824 00

Liabilities and credits.

Amount paid in,	126,000 00	
		<hr/>
Gain,	\$75,824 00	
Gain on one thousand shares, \$75 82 per share,	75,820 00	
		<hr/>
Undivided,	\$4 00	
		<hr/> <hr/>

Value of each share.

Paid in,	\$126 00	
Gain,	75 82	
		<hr/>
		\$201,82
Par value,	200 00	
		<hr/>
Surplus per share,	\$1 82	
		<hr/> <hr/>

Shares.

Borrowed on,	1,000	
		<hr/> <hr/>

Memoranda.

From dues,	\$126,000 00	
From interest,	53,160 00	
From premiums,	21,264 00	
		<hr/>
		\$200,424 00
For loans,	200,000 00	
		<hr/>
Cash balance,	\$424 00	
Accrued interest,	1,000 00	
Accrued premiums,	400 00	
		<hr/>
Surplus over \$200 per share,	\$1,824 00	
		<hr/> <hr/>
Divided per share at the beginning of the 127th month, \$1.82 ⁴⁰ / ₁₀₀ .		

Final Report.

Cash Receipts.

From dues,	\$126,000 00	
From interest,	54,160 00	
From premiums,	21,664 00	
		<hr/>
		\$201,824 00
*From loans repaid,	200,000 00	
		<hr/>
		\$401,824 00
		<hr/> <hr/>

Disbursements.

For loans,	\$200,000 00	
For 1,000 matured shares,	200,000 00	
For 1,000 shares at 1.82 ⁴⁰ / ₁₀₀ each,	1,824 00	
		<hr/>
		\$401,824 00
		<hr/> <hr/>

* It is customary, when shares have matured upon which loans have been made, to draw orders for each batch of matured shares, hand them to the borrowers, and charge them off as cash paid out. The borrowers at once return the orders as cash in settlement of their loans.

Totals.

	Dues paid in.	Interest paid in.	Premiums paid in.	Amount loaned to borrowers.	Shares borrowed on.
First year,	\$12,000 00	\$330 00	\$132 00	\$12,000 00	60
Second year,	12,000 00	1,050 00	420 00	13,000 00	65
Third year,	12,000 00	1,925 00	770 00	15,000 00	75
Fourth year,	12,000 00	2,840 00	1,136 00	16,000 90	80
Fifth year,	12,000 00	3,835 00	1,534 00	17,000 00	85
Sixth year,	12,000 00	4,920 00	1,968 00	19,000 00	95
Seventh year,	12,000 00	6,095 00	2,438 00	21,000 00	105
Eighth year,	12,000 00	7,370 00	5,948 00	22,000 00	110
Ninth year,	12,000 00	8,760 00	3,504 00	24,000 00	120
Tenth year,	12,000 00	10,285 00	4,114 00	27,000 00	135
Six months,	6,000 00	5,750 00	2,300 00	14,000 00	70
Total,	\$126,000 00	\$53,160 00	\$21,264 00	\$200,000 00	1,000
Interest 127th month, . . . . .	. . . . .	1,000 00	. . . . .	. . . . .	. . .
Premium 127th month, . . . . .	. . . . .	. . . . .	400 00	. . . . .	. . .
Grand total,	\$126,000 00	\$54,160 00	\$21,664 00	\$200,000 00	1,000

PENNSYLVANIA.

Out of perhaps quite one thousand building and loan associations in the State of Pennsylvania, we have collected mostly by personal visits to the homes of the secretaries and meeting rooms of these associations the yearly financial statements of three hundred and thirty-seven as- sociations. While the names of the companies are known and the city or county in which their business is transacted ascertainable, yet a circular letter addressed to the secretary or the association, without giving the number of the residence of the secretary or the street loca- tion of the meeting room, especially in large cities, is likely to find its way back marked “unfound,” as was the actual result in hundreds of cases. In other States the same difficulty has been experienced. But these reports are gradually coming to hand, and by another year it is quite likely that a complete statement of the financial condition of these associations can be presented.

The reports of the three hundred thirty-seven associations whose statements have been carefully analyzed show:

Total number of shares,	459,082
Total number of shares pledged for loans,	126,243½
Total cash receipts for one year,	\$11,739,041 54
Total cash expenditures for one year,	11,089,821 62
Cash on hand at end of fiscal year,	649,219 92
Paid to shareholders for matured stock and withdrawals,	3,458,967 13
Current expenses, one year,	115,926 51
Total assets,	28,348,871 17
Total gains,	5,940,653 60

Division of Assets.

Loans,	\$26,279,286 52	
Real estate,	1,059,255 61	
Cash,	649,218 92	
Sundries,	361,109 12	
	<hr/>	\$28,348,871 17
Membership, estimated,		73,437
Borrowers, estimated,		22,953

The averages per societies are as follows :

Shares,	1,362
Shares borrowed on,	374
Cash receipts,	\$34,830 98
Cash expenditures,	32,907 48
Cash on hand,	1,926 43
Withdrawals and matured stock,	10,264 00
Current expenses,	343 99
Assets,	84,121 27
Gains,	17,624 05
Members, total,	218
Members borrowers,	68
Shares per member,	6 $\frac{1}{4}$
Shares per borrower,	5 $\frac{1}{2}$

Estimate for one thousand societies in the State :

Shares,	1,362,500
Members,	218,000
Borrowers,	68,000
Borrowed shares,	374,000
Assets	\$84,121,270 00
Receipts, one year,	34,830,983,50
Disbursements, one year,	32,907,482 55
Cash on hand,	1,926,438 93
Withdrawals and matured shares,	10,263,997 41
Expenses,	343,990 00
Gains,	17,628,050 00

To appreciate the enormity of the work accomplished by these building associations it must be remembered that the present assets, say \$84,000,000, are the accumulations from the savings of the past twelve years only. That is, all the shares that were started twelve years ago have been withdrawn or matured, or in plainer terms, the life of a society, or a series, is less than twelve years.

The present capital, estimated at \$84,000,000, will all be returned to the subscribers within twelve years from now. Although the capital twelve years hence may be greater than at present, it will represent new members admitted between now and then—the old gradually dropping out. During the past twenty-four years it is very probable that the building societies of the United States have turned over to members in cash, for withdrawals, matured shares and cancelled mortgages, at least \$600,000,000.

If money was the only consideration this would give an idea of the work these associations are doing, but it represents also habits of economy formed. the blessings of life in one's own home, exalted citizenship and individual independence.

Mr. Joseph I. Doran, of Philadelphia, a few years ago, at the expense of much time, collected information from the city records on this subject. He ascertained that from 1849 to January, 1876, the building society mortgages recorded were 36,129, averaging \$2,000 each, showing that through this agency at least thirty thousand houses had been erected or purchased, and \$72,000,000 added to the value of real estate. He further stated that, since 1870 to January, 1876, 31,479 dwellings had been built within Philadelphia, and during that period 20,535 building society mortgages had been recorded. It is quite probable that 40,000 mortgages have been created from building society loans since 1876 to the present day.

According to the yearly estimate for disbursements for one thousand societies in Pennsylvania, namely, \$32,907,482, it will be seen that these building associations disburse every twelve years in Pennsylvania alone \$384,889,784.

The estimate of \$10,263,997.41 for withdrawals and matured shares in one year, or \$123,167,768.92 for twelve years, is faulty for the reason that many associations do not show matured shares in their cash account. That is when, say \$20,000 worth of stock has matured that has been pledged for loans, this stock cancels \$20,000 worth of mortgages, without appearing on the cash account as \$20,000 paid for loans, and \$20,000 paid out for matured stock.

Considerable difficulty was encountered in preparing a condensed tabulation of the annual reports collected, as many of them are entirely unlike in form or expression. Perhaps the most laborious part was in caculating the net gains of the different associations, as very few reports are prepared in such a manner as to give the total gains. The shares are given, the value of one share, and the amount paid in, but such association has from two to forty sets of shares of different values and odd amounts paid in, and from all these it was necessary to ascertain, by a laborious process, the net gain for each association.

The financial statements are frequently semi-annual, and in such cases the receipts and expenditures for six months were multiplied by two.

The detailed exhibit is worthy the attention of the wage earners and of all those who are interested in the economy and thrift that has taken such deep root in this State through the influence of these associations.

Alphabetical order of table.— Number of Societies.	Total number of shares.	Number of shares borrowed on.	Cash receipts.	Cash expenditures.	Cash on hand.	Paid withdrawals and matured shares.
A 21,	29,043½	10,401¼	\$881,874 46	\$849,818 66	\$32,055 80	\$349,955 33
B 14,	22,719½	6,659¼	611,798 53	587,660 33	24,133 20	193,735 74
C 30,	43,236½	12,783½	1,262,758 66	1,199,136 26	63,622 40	364,152 31
D 8,	10,987½	2,983	298,546 43	281,726 88	16,819 55	131,039 58
E 13,	17,018	4,732¾	390,661 81	366,698 69	23,963 12	94,345 01
F 19,	29,541	6,983¼	640,421 76	620,328 33	20,093 43	179,120 58
G 16,	24,401½	7,582¾	577,310 44	542,898 85	34,423 59	207,948 54
H 25,	34,302¼	9,399¾	794,066 10	754,784 43	39,221 67	153,881 00
I 10,	11,618¾	3,127½	352,311 53	327,532 03	24,779 50	80,902 39
J 6,	4,879¾	1,966½	125,799 88	114,312 38	11,487 50	22,317 24
K 7,	13,119½	1,159½	291,163 49	273,106 70	18,056 79	25,501 94
L 11,	16,703	6,492	438,307 68	420,264 82	18,042 86	155,167 88
M 20,	23,552½	5,102½	570,597 59	503,937 31	66,660 28	164,265 28
N 16,	22,057½	4,752	515,884 44	490,904 21	24,980 23	112,925 65
O 4,	7,073	1,611¾	161,684 19	158,236 03	3,448 16	55,850 62
P 22,	34,552	8,546¾	917,891 99	889,517 92	28,374 07	215,132 82
R 21,	27,164¼	5,475½	704,209 20	650,772 14	53,437 06	224,000 32
S 35,	43,156½	15,184	1,140,980 22	1,076,394 91	64,585 31	332,743 39
T 10,	8,866	2,810	270,866 23	239,391 43	31,474 80	91,770 85
U 9,	14,543	3,378½	320,519 72	302,894 57	17,625 15	138,172 27
V 4,	3,550	494	67,799 41	63,498 63	4,300 72	6,092 09
W 16,	16,996½	4,617¼	403,637 78	376,018 05	27,619 73	129,986 30
337	459,082	126,243¼	\$11,739,041 54	\$11,089,821 62	\$649,219 92	\$3,458,967 13

Current expenses.	Total assets.	Total gains.	DIVISION OF ASSETS.			
			Loans	Real estate.	Cash.	Sundries.
\$8 444 59	\$1,875,535 25	\$430 223 27	\$1,813,100 00	\$6 939 68	\$32,055 80	\$23 379 77
5,278 60	1 539,042 06	328,253 99	1,445,326 98	47,545 27	24,138 20	22 031 61
9,580 71	2 836,864 87	625 018 34	2,673,643 77	60,613 70	63,622 40	38 982 00
2,761 47	713,125 88	112,643 74	584,742 32	103,978 30	16,819 55	7,585 71
3,503 70	1 010,406 44	202 455 76	960,990 61	15 565 00	23 963 12	9,887 71
6,656 57	1,548,796 89	291,275 20	1,424,968 00	79,167 13	20,093 43	24,563 33
6,118 79	1,454,554 57	333,223 86	1,300,899 00	97,362 80	34,423 59	21,839 18
8,645 03	2,249,442 83	498,438 09	2,101 175 05	88,873 36	39,221 67	20,172 76
3,960 68	811,920 20	184,558 04	752 381 00	22 535 00	24 779 50	12 224 70
1,407 22	313,211 99	89,788 73	273,706 05	24,715 15	11,487 50	3,303 29
2,642 91	1,106 122 81	294,341 17	1,035,485 00	40,750 00	18,056 79	11,831 02
4,407 45	1,397,192 88	308,714 01	1,306,553 50	54,326 74	18 042 86	18,269 78
5,810 04	1,144,132 93	199,698 46	1,046,816 34	16,652 00	66 660 28	14 004 31
5,002 08	1,262,662 80	252,289 19	1,116 229 50	107,450 00	24 990 23	13,993 07
1,506 45	311,998 15	51 442 17	305,430 00	. . .	3,448 16	3,119 99
8,527 77	1,812,445 06	339,363 41	1,740,377 80	21,085 62	28 374 07	22,607 57
6,669 22	1,373,512 83	268,715 36	1,256,973 74	40,183 92	53 437 06	22,918 11
11,219 97	2 920,141 47	591,580 42	2,756,571 65	62,297 65	64,535 31	36,686 86
3,277 34	638,795 75	131,696 56	584,366 02	10,780 31	31,474 80	12,174 62
4 611 59	791,135 28	149,361 94	705,684 99	59,644 13	17,625 15	8,181 01
1,003 35	104,479 78	15,666 63	98 800 00	. . . . .	4 300 72	1,379 06
4,890 98	1,133,350 44	241,905 66	995,062 20	98,729 85	27,619 73	11,938 66
\$15,926 51	\$28 348,871 17	\$5,940,653 60	\$26,279,286 52	\$1,059,255 61	\$649,219 92	\$361,109 12

Office number.	NAME AND LOCATION OF ASSOCIATION.	Serial or terminating.	Age of association in years.	Date of latest annual report.	Total number of shares.	Number of shares borrowed on.	Cash receipts.	Cash expenditures.	Cash on hand at end of year.
A.	1.	2.	3.	4.	5.	6.	7.	8.	9.
1	Ark B. & L. A., Philadelphia,	S,	12	1888	2 500	1 590	\$196,850 76	\$193,719 69	\$3,131 07
2	Art Workers' B. & L. A., Philadelphia,	S,	22	1888	1,183½	487½	46 515 68	44,146 93	2,263 70
3	Active B. & L. A., Philadelphia,	S,	5	1888	3,390½	569	79,467 33	79 467 33	.
4	Adelphi L. & B. A., Philadelphia,	S,	18	1886	783½	253	24,733 12	23,369 55	1,413 57
5	Aurora B. A., Philadelphia,	T,	7	1887	735	391	22,892 83	21,434 40	1,443 43
6	Ashland B. & L. A. No. 3, Philadelphia,	S,	2	1888	1,069½	132	15,463 87	14 620 80	343 07
7	Amber B. & L. A., Philadelphia,	S,	9	1887	1 043	440½	26 412 20	21,672 19	4,740 01
8	Anthracite B. & L. A., Philadelphia,	S,	20	1887	1,582½	585	45 714 78	45,714 78	.
9	Annual Series B. & L. A., Philadelphia,	S,	13		340	140½	9,037 44	9,057 44	.
10	Assistance B. & L. A. No. 2, Philadelphia,	S,	4	1887	769½	125½	13,337 76	13,337 76	.
11	Assistance B. & L. A., Philadelphia,	S,	13	1887	575	140	36,925 17	34 962 45	1,962 72
12	Allegheny Avenue B. & L. A., Philadelphia,	S,	17	1888	2,698	855½	59,024 20	56,203 48	2,820 72
13	Artisans' B. & L. A., Philadelphia,	S,	18	1887	1,165½	196½	29,764 78	25 935 15	3 829 63
14	Artisans' B. & L. A. No. 2, Philadelphia,	S,	15	1888	680½	235	31,021 25	31,021 25	.
15	Anchor B. & L. A., Philadelphia,	S,	14	1888	1,014½	770½	26,520 83	25,373 92	1 141 91
16	American Centennial B. A., Philadelphia,	S,	.	.	585	160	21,960 76	20,630 51	1,330 25
17	Ambler B. & L. A. of Montgomery Co.,	S,	13	1887	2,169	411	21,994 82	21,802 08	192 74
18	Altoona B. & L. A. No. 2, Altoona,	T,	8	1887	1,861	1,503	49,506 34	49,506 34	.
19	American Mechanics' B. & L. A., Lancaster,	S,	18	1886	1,342	374	39,927 07	33 833 11	6,093 96
20	Ashland S. F. & L. A., Ashland,	S,	13	1886	2,551	621	67,743 55	67,285 85	457 70
21	Anthracite B. & L. A., Weatherly,	T,	5	1888	1 000	420	16,919 89	16 638 60	281 29
					29,043½	10,401½	\$881,874 46	\$849,818 66	\$32,055 80

Paid withdrawals and matured stock.	Current expenses.	Total assets.	Total gains.	HOW ASSETS ARE INVESTED.			
				Loans.	Real estate.	Cash.	Sundries.
10.	11.	12.	13.	14.	15.	16.	17.
\$157,453 28	\$612 32	\$187,338 84	\$34,002 47	\$182 000 00	. . .	\$3,131 07	\$2,207 77
17 061 24	381 05	73,725 85	12,842 85	69,000 00	\$2,086 50	2,368 74	570 65
14 904 56	511 77	116,513 42	13,516 00	113,800 00	. . .	. .	2,713 42
7,971 10	298 45	62 379 02	10,518 89	60,900 00	. . .	1 413 57	65 45
8,974 40	260 00	80 208 69	18,286 80	78,400 00	. . . . .	1,448 46	360 23
1,258 60	262 20	27,375 82	1,486 60	26,375 00	. . . . .	843 07	157 75
12,487 30	293 87	94 388 74	25,251 29	88,100 00	. . . . .	4,740 01	1,543 73
8,551 49	463 29	117,943 64	24 101 81	117,000 00	. . . . .	. . . . .	943 64
4 894 91	261 57	28,589 29	6 549 02	28,100 00	. . . . .	. . . . .	489 29
3 751 50	233 26	30,658 50	2,732 21	30,500 00	. . . . .	. . .	158 50
9 424 50	513 87	38 415 72	11,999 43	34,650 00	900 00	1,962 72	903 00
20 833 28	490 20	176 737 81	38,815 32	172,850 00	. . . . .	2 820 72	1,067 09
3,727 00	670 18	56 994 88	13 373 53	51,850 00	. . . . .	3,829 63	1,315 25
17,594 07	464 49	48 602 05	12,475 23	47,100 00	. . . . .	. .	1 502 05
10 046 07	476 20	53,916 91	11,001 91	52,775 00	. .	1 141 91	.
5,419 00	339 32	37,788 26	*5,000 00	31 000 00	3,581 27	1,330 25	1,876 74
8,719 54	208 63	42,045 10	9,209 10	41,100 00	. . . . .	192 74	752 36
9 929 70	330 00	302,760 49	112,487 53	300,600 00	. . . . .	. .	2 160 49
4 462 88	390 86	86,564 16	19,583 19	78,800 00	. .	6,093 96	1,670 20
22,460 91	695 06	127,928 06	22,200 00	124,200 00	431 91	457 70	2,833 45
. .	182 00	84 660 00	24 660 00	84,000 00	. .	281 29	378 71
\$340,955 33	\$8,444 59	\$1 875,535 25	\$430,223 27	\$1 813 100 00	\$6,999 68	\$32,055 80	\$23,379 77

* Estimated.

Office number.	NAME AND LOCATION OF ASSOCIATION.	Serial or terminating.	Age of association in years.	Date of latest annual report.	Total number of shares.	Number of shares borrowed on.	Cash receipts.	Cash expenditures.	Cash on hand at end of year.
B.	1.	2.	3.	4.	5.	6.	7.	8.	9.
1	Bridesburg Perpetual B. A., Philadelphia, . . .	S,	19½	1888	4,523	1,683	\$176,237 69	\$176,218 06	\$19 63
2	Ben Franklin B. & L. A., Philadelphia, . . .	S,	16	1888	405	166	8,993 61	8,993 61	. . . . .
3	Bourguignon B. A., Philadelphia, . . .	T,	9		448	282	20,274 86	15,826 47	4,448 39
4	Bakers' B. & L. A., No. 1, Philadelphia, . . .	S,	4	1888	1,823	304	42,997 19	42,997 19	. . . . .
5	Bellevue B. & L. A., Philadelphia, . . .	S,	13	1886	321	90	23,559 67	22,213 86	1,345 81
6	Bi-Centennial B. & L. A., Philadelphia, . . .	S,	5	1887	1,120	150	25,705 28	25,256 13	449 15
7	Bainbridge B. & L. A., Philadelphia, . . .	S,	18	1887	591	107	14,450 83	14,450 83	. . . . .
8	Beneficient B. A., Philadelphia *		19	1888	.	.	4,130 20	2,103 42	2,026 78
9	Bridesburg B. A., Philadelphia, . . .	S,	19	1887	2,385	756	45,116 83	43,842 29	1,274 54
10	Belrose B. & L. A., Philadelphia, . . .	S,	8	1888	1,135½	322¾	28,785 98	23 190 16	5,595 82
11	Bush Hill B. A. No. 2, Philadelphia,	S,	19	1888	3,406	582	78,396 62	71,026 50	7,370 12
12	Bristol B. A., Bristol, . . .	S,	20	1888	713	267	20,691 80	20,520 52	151 28
13	Building Association, Landsburg, . . .	S,	14	1886	.	. . .	5,008 40	4,854 31	154 09
14	Beaver Valley B. & L. A., New Brighton, . . .	S,	10	1886	4,025½	1,282	80,000 00	78,619 97	1,380 03
15	Bryn Mawr B. & L. A., Montgomery county, . . .	S,	10	.	1,818½	667½	41,599 77	39,650 43	1,949 34
					22,719½	6,669¼	\$611,798 53	\$587,660 33	\$24,138 20

* Real estate association only; not included in count.

Paid withdrawals and matured stock.	Current expenses.	Total assets.	Total gains.	HOW ASSETS ARE INVESTED.			
				Loans.	Real estate.	Cash.	Sundries.
10.	11.	12.	13.	14.	15.	16.	17.
\$68,928 84	\$1,092 14	\$340 840 75	\$65,194 69	\$336,429 77	. . . . .	\$19 63	\$4,391 35
8,130 60	287 25	33,408 27	7,872 03	32,200 00	. . . . .	. . . .	1,208 27
4 560 29	290 05	71,112 71	20,539 84	56,400 00	\$9,950 00	4,448 39	314 32
11,223 07	374 12	66 578 70	7 127 35	60,800 00	5,040 72		737 98
3,350 24	310 24	77,443 52	14,201 56	64,200 00	10,745 81	1,345 81	1,151 90
5,656 91	287 85	35,036 20	3,092 08	30 000 00	4,357 26	449 15	229 79
4,145 61	261 15	33,792 47	4,921 32	26,287 83	7,131 00	. . . .	373 64
. . . . .	. . . . .	70,284 96	17,484 96	.	70,284 96	. . . .	. . . . .
18 444 47	499 92	162 171 40	35,844 88	151 200 00	4 900 00	1,274 54	4,796 86
3,691 56	193 60	70,805 00	13 611 36	64,550 00	. . . .	5 595 82	659 08
19,596 56	452 95	169,574 41	33,469 44	161,200 00	. . . .	7,370 02	1,004 29
10,768 35	252 50	56 324 08	12,681 21	55,800 00	. .	151 28	372 80
228 40	141 83	17,631 88	5,468 69	16,359 38	900 00	154 09	218 41
20,000 00	*600 00	267 552 15	63,282 20	256,400 00	4,520 48	1,380 03	5,251 64
14,980 84	230 00	136,770 52	40,946 94	133,500 00		1,949 34	1,321 18
\$193,735 74	\$5,278 60	\$1,539,042 06	\$328 253 59	\$1,445,326 98	\$47,545 27	\$24,138 20	\$22,031 61

Office number.	NAME AND LOCATION OF ASSOCIATION.	Serial and terminating.	Age of association in years.	Date of latest annual report.	Total number of shares.	Number of shares borrowed on.	Cash receipts.	Cash expenditures.	Cash on hand at end of year.
C.	1.	2.	3.	4.	5.	6.	7.	8.	9.
1	Charles Carroll B. A., Philadelphia,	S,	6	1888	862½	279	\$33 540 17	\$31 674 90	\$1 865 67
2	Concord B. & L. A., Philadelphia,	S,	16	1888	574	221	11,558 65	10,179 07	1 379 58
3	Cardinal B. A., Philadelphia,	T,	10	1883	643	307½	15 040 33	13 751 03	1,289 30
4	Carroll B. A. No. 6, Philadelphia,	T,	12	1888	672	347½	45,330 90	37,283 00	8,042 90
5	Cumberland B. & L. A. No. 2, Philadelphia,	S,	14	1887	1,688½	676½	43,763 29	38,744 24	4,919 05
6	Cable B. & L. A., Philadelphia,	S,	10	1887	1,002¼	427¼	27,956 51	22,863 82	5,089 69
7	Continental B. A., Philadelphia,	T,	2	1888	1,882	246	31,706 50	31,706 50	.
8	Carroll B. A., Philadelphia,	T,	11	1888	581	262¼	19,054 45	17 249 37	1,805 08
9	City Hall B. & L. A., Philadelphia,	S,	4	1888	1 273	250	28,363 49	28 328 49	35 00
10	Columbia B. & L. A., Philadelphia,	S,	16	1887	152	40	8,043 51	5,653 06	2,440 45
11	Columbia Avenue B. A., Philadelphia,	S,	12	1888	1,709	363	40,179 35	38,483 97	1 695 38
12	Cadwalader B. A., Philadelphia,	T,	3	1887	1 623	320¼	30,770 93	28 125 19	2,645 74
13	Consolidated B. A., Philadelphia,	T,	4	1887	1,600	438	32,881 61	32,409 26	452 35
14	Charles H. Salmon, Philadelphia,	S,	6	1887	1 217	292	20 606 06	17,662 50	2,943 56
15	Carpet and Hostery. B. & L. A., Philadelphia,	S,	6	1887	657	132	17 286 86	17 263 60	18 26
16	Concordia B. & L. A., Philadelphia,	T,	9	1885	709	703	17,807 64	17,156 57	651 07
17	Cohocksink Mutual B. & L. A., Philadelphia,	S,	16	1886	1,272	430	52,709 53	50,592 86	2 116 67
18	Combination No. 4, Philadelphia,	T,	2	1887	1 242½	161	18,022 30	17,750 25	271 05
19	City of Homes B. & L. A., Philadelphia,	S,	12	1888	2,853	512½	72 810 56	66 962 81	5,847 75
20	Cumberland B. & L. A., Philadelphia,	S,	16	1887	2,645½	956	50,079 57	36 964 01	13,115 56
21	City of Penn B. & L. A., Philadelphia,	S,	.	.	.	.	.	.	.
22	Chelton Hills Mutual Improvement, Montgomery county,	S,	21	1887	4 058	811	30 015 40	29 871 56	143 84
23	City of Penn S. F. & L. A., Philadelphia,	S,	6	1888	1 313	312	30,252 92	30,100 38	152 54
24	Commonwealth B. & L. A., Stroudsburg,	S,	8	1886	948	563	14,256 25	13,858 03	393 22
25	Citizens' B. & L. A., Centalla,	S,	5	.	1,540	332	32,769 27	30,836 14	1 933 13
26	Citizens' S. & L. A., Ashland,	S,	11	1886	4,866	1,735	130,040 60	130,040 60	.
27	Chester B. A., Chester,	S,	11	.	1,575½	613	318,283 06	314,847 66	3,436 10
28	Columbia B. & S. A. No. 3, Reading,	T,	8	.	765	196	23,619 61	23 619 61	.
29	Citizens' B. & L. A., Mt. Carmel,	S,	6	1886	2,227	781	46,285 51	46,234 80	71
30	Constitutional B. A., Philadelphia, . . . . .	.	1	1888	1,036	61	19,792 83	18,800 08	932 75
					43,236½	12,783½	\$1,262 753 66	\$1,199 136 20	\$63 622 40

Paid withdrawals and matured stock.	Current expenses.	Total assets.	Total gains.	HOW ASSETS ARE INVESTED.			
				Loan	Real estate.	Cash.	Sundri s.
10.	11.	12.	13.	14.	15.	16.	17.
\$18,846 65	\$303 65	\$66,368 62	\$7 079 20	\$57 000 00	\$6 750 00	\$1 865 67	\$752 95
4,617 68	379 93	43 041 34	16 755 74	44,200 00	1,000 00	1 379 58	1,461 76
962 30	196 80	104 102 40	26,932 05	102 300 00	. . . . .	1 289 30	513 10
.	165 95	135,267 80	38 732 16	126 950 00	. . . . .	8 042 90	274 90
19,019 20	291 20	141 969 49	35,408 20	135,300 00	. . . . .	4,919 05	1,750 44
6 301 36	474 72	96,871 42	24,225 18	85,480 00	5 000 00	5,089 69	1 301 73
7 059 50	193 05	49,200 00	2 653 62	49,200 00	. . . . .	.	. .
1,944 00	197 83	100,762 64	24 065 02	98 427 54	. . . . .	1,805 08	530 02
2 042 45	187 10	50,351 75	4,892 93	50,045 73	. . . . .	35 00	271 02
4 778 55	184 51	10 565 16	1,445 95	7,890 00	. . . . .	2 440 45	234 71
11,670 57	365 41	80 253 91	14,857 01	72 600 00	5 180 50	1,695 38	778 03
1,869 93	231 64	67,281 04	8 796 63	64 025 00	. . . . .	2 645 74	610 30
5,757 01	247 00	87,460 93	9,104 00	86,000 00	. . . . .	452 35	1 008 58
6,296 88	295 62	61,735 30	7 123 21	58,400 00	. . . . .	2,943 56	391 74
13 921 57	221 05	26,980 46	3,105 96	26 400 00	. . . . .	18 26	562 20
.	213 75	142 513 16	53,477 31	141 600 00	. . . . .	651 07	267 09
39 285 29	307 57	95,900 81	16 953 06	92 600 00	. . . . .	2 113 67	1,184 14
1,408 00	72 75	32 921 42	3,083 40	32,200 00	. . . . .	272 05	449 37
41 098 95	552 20	122,095 25	19,357 63	107 700 00	7,950 00	5,847 75	597 50
24,977 23	377 00	208,440 97	56,993 94	191,200 00	997 00	13 115 56	3,128 41
.
20,023 68	340 50	87,311 99	13,153 90	81,275 00	4,300 00	143 84	1,593 15
10 191 49	399 85	64 869 29	7,488 95	63,400 00	. . . . .	152 54	1 336 75
3,051 60	315 00	114 696 12	51,947 60	112,600 00	. . . . .	398 22	1,097 90
3 387 77	383 99	70 885 50	9,922 11	66 400 00	. . . . .	1,933 13	2,552 37
1,079 00	1,093 75	354 159 37	61,091 45	347,000 00	220 13	. . . . .	6,939 24
94 982 68	*600 00	130,277 03	32,908 02	122,604 00	1,016 07	3,436 10	3,220 86
2,382 49	200 84	111,533 50	33,078 60	80,449 50	28 200 00	. . . . .	2 884 00
16 553 47	338 50	161,129 98	39,924 26	158,200 00	. . . . .	71	2,929 27
703 01	449 60	13 493 22	461 22	12 200 00	. . . . .	932 75	260 47
\$364,152 31	\$9,580 71	\$2,836,864 87	\$625 018 34	\$2,673,646 77	\$60,613 70	\$63,622 40	\$38,982 00

Office number.	NAME AND LOCATION OF ASSOCIATION.	Serial or terminating.	Age of association in years.	Date of latest annual report.	Total number of shares.	Number of shares borrowed on.	Cash receipts.	Cash expenditures.	Cash on hand at end of year.
D.	1.	2.	3.	4.	5.	6.	7.	8.	9.
1	Diston B. & L. A. No. 2, Philadelphia,	S,	8	1887	784½	200½	\$25,039 98	\$21,035 63	\$3,954 31
2	Daron B. A., Philadelphia,	S,	8	1888	604½	235	11,536 11	10,350 03	1,186 08
3	Delaware B. A., Philadelphia,	T,	5	1888	1,423	436	37,980 97	31,759 05	6,221 92
4	Daniel O'Connell B. A., Philadelphia, .	T,	2	1888	1,914	270½	38 502 41	36 763 00	1,739 41
5	Dauphin B. A., Philadelphia,	S,	5	1887	1,632	262	36,579 24	34 560 65	2,018 59
6	Delaware River B. & L. A., Philadelphia, .	S,	16	1887	540½	156	13 963 21	13,894 30	68 91
7	Dickerson B. A. No. 3, Philadelphia,	T,	9	1886	572	572	26,811 24	25,602 00	1,209 24
8	Decatur B. A., Philadelphia,	S,	. . .	1887	3,467	851	108,133 27	107,712 22	421 05
					10,937½	2,983	\$298,546 43	\$281,726 88	\$16,819 55

Paid withdrawals and matured stock.	Current expenses.	Total assets.	Total gains.	HOW ASSETS ARE INVESTED.			
				Loans.	Real estate.	Cash.	Sundries.
10.	11.	12.	13.	14.	15.	16.	17.
\$6,137 88	\$147 75	\$45,004 20	\$7,598 38	\$40,100 00	. . . . .	\$3,954 35	\$949 85
4 162 92	195 61	48 604 73	11,095 40	47,090 00	. . . .	1,186 08	418 65
8,830 03	329 02	95 993 07	9,961 00	87,200 00	\$1 509 00	6 221 92	1,071 15
4,981 35	234 15	56 913 33	4 880 70	54,100 00	. . . . .	1,739 41	1,073 92
10 551 04	260 25	42,761 49	4,229 99	40,492 32	. . . .	2,018 59	250 58
9,656 10	233 91	39 495 81	39,577 11	31,250 00	7 800 00	68 91	376 90
.	247 00	115,821 84	36 505 04	114,400 00	. . . . .	1,209 24	212 60
86,720 26	1,058 78	268,531 41	28 796 12	170 200 00	94,678 30	421 05	3,232 06
\$131,039 58	\$2,761 47	\$713,125 88	\$112 643 74	\$584,742 32	\$103,978 30	\$16,819 55	\$7 585 71

Office number.	NAME AND LOCATION OF ASSOCIATION.	Serial or terminating.	Age of association in years.	Date of latest annual report.	Total number of shares.	Number of shares borrowed on.	Cash receipts.	Cash expenditures.	Cash on hand at end of year.
E.	1.	2.	3.	4.	5.	6.	7.	8.	9.
1	E. T. Tyson B. & L. A., Philadelphia.	S,	7	1883	2 133½	578	\$24 074 76	\$20,372 30	\$3,702 46
2	East End B. & L. A., Philadelphia.	S,	10	1887	487	147	11,008 20	11 008 20	...
3	Energetic B. A., Philadelphia.	S,	17	1888	784½	207½	33 013 91	28 031 70	4,992 21
4	Eagle B. & L. A. No. 3, Philadelphia.	T,	10	..	1,282	1,093½	28 829 65	38 807 37	22 28
5	Erie B. A., Philadelphia.	T,	4	1888	937	254½	24,252 86	23,813 41	449 45
6	Elm B. A., Philadelphia.	S,	3	1837	981	146½	17,284 36	16,605 96	678 40
7	Erin B. A., Philadelphia.	T,	5	1888	1,480½	590½	34,324 86	30,963 17	3,356 69
8	Elm Free B. & L. A., Philadelphia.	S,	17	1887	734	173½	22,862 07	19,123 43	3 733 59
9	Emerald B. A. No. 2, Philadelphia.	T,	9	1887	489½	225½	37,767 89	34,792 25	2 975 64
10	Tacony B. & L. A., Philadelphia.	S,	14	1887	3,780	571	69 371 75	67,234 62	2 137 13
11	Eureka S. F. & L. A., Pittsburgh.	S,	4	1888	1,651	141	15 219 42	15,219 42	...
12	Eastern B. & L. A., York.	S,	11	1886	854	409	30 000 00	*30,000 00	...
13	Excelsior S. F. & L. A., Norristown,	S,			1,434	169	32,652 08	30,731 81	1,920 27
					17,018	4,782½	\$390,661 81	\$366,698 69	\$23,963 12

Paid withdrawals and matured stock.	Current expenses.	Total assets.	Loans.	HOW ASSETS ARE INVESTED.			
				Loans.	Real estate.	Cash.	Sundries.
10.	11.	12.	13.	14.	15.	16.	17.
\$6,014 63	\$816 03	\$120 114 41	\$19,640 08	\$115,600 00	.....	\$8 702 46	\$811 95
1,193 26	214 94	33,579 96	7,936 49	33,400 00	.....	.....	179 96
18 211 73	209 97	47,290 21	7,903 01	41,500 00	....	4 992 21	738 00
8,073 57	259 12	221,795 90	75,647 90	218,700 00	\$2,500 00	22 29	573 62
6,949 41	163 00	50,830 78	5,781 29	49,797 97	.....	439 45	593 33
4 620 96	255 00	30,358 44	2 209 25	29,300 00	...	678 40	380 04
3,959 98	232 62	130,564 58	25 408 58	125 300 00	.....	3,356 69	1,907 89
11,817 45	233 86	39,510 91	6,813 57	34,700 00	600 00	3,738 59	372 32
3,483 61	213 50	63,473 52	15 665 23	54,980 00	9,000 00	2 975 64	537 88
17,060 58	674 04	118,808 12	13,861 99	114,200 00	....	2,137 13	2,471 00
8,196 63	223 20	27,372 53	2,208 42	27,317 64	.....	.....	54 89
838 17	253 40	51,125 00	4 223 73	51,125 00	.	.....	.....
3,924 96	250 00	70 682 07	10,216 19	64 090 00	3,465 00	1 920 27	1,266 80
\$94 345 01	\$3,503 70	\$1,010,406 44	\$202,455 76	\$960,990 61	\$15,565 00	\$23,963 12	\$9,837 71

Office number.	NAME AND LOCATION OF ASSOCIATION.	Serial or terminating.	Ages of association in years.	Date of latest annual report.	Total number of shares.	Number of shares borrowed on.	Cash receipts.	Cash expenditures.	Cash on hand at end of year.
F.	1.	2.	3.	4.	5.	6.	7.	8.	9.
1	Fidelity B. A., Philadelphia, . . .	S,	14	1887	1,232	236	\$25,871 32	\$22,778 31	\$3,093 01
2	Fair Chance B. & L. A., Philadelphia, . . .	S,	7	1888	894	194	18,006 07	15,865 49	2,140 53
3	Frankford B. & L. A., Philadelphia, . . .	S,	20	1888	1,633½	415	35 329 44	33,935 84	1,393 60
4	Fifth Ward B. & L. A., Philadelphia, . . .	S,	15	1888	1,622	319	31,087 15	28 373 55	2 713 60
5	Fourth Blucher B. A., Philadelphia, . . .	S,	8	1887	3,314	1,532	77,375 24	77,375 24	.
6	Fritz Reuter B. A. Philadelphia, . . .	T,	9	1887	299	261	11,796 65	9,453 97	2,342 68
7	Franz Abt B. & L. A., Philadelphia, . . .	S,	6	1888	864	196	32,716 03	32,702 87	13 16
8	Falls of Schuylkill B. S. F. & L. A., Philadelphia, . . .	S,	21	1888	1,368¼	393¼	39,426 33	39,335 15	41 18
9	Fairmount Avenue B. & L. A., Philadelphia, . . .	S,	13	1888	1,030	349½	23,280 72	19,194 11	4,086 61
10	Fourth Phoenix B. & L. A., Philadelphia, . . .	S,	5	1888	621	153	17 900 00	17,900 00	. . . . .
11	Fifth Mutual B. S., Philadelphia, . . .	S,	13	1888	2,100½	500	39,928 74	39 928 74	. . . . .
12	Fidelity B. & L. A., Mahanoy City, . .	S,	10	.	3,562	487	66,930 64	66,243 93	686 71
13	Friendship B. & S. A., No. 2, Reading, . .	.	6	.	1,439	302½	47,404 91	45 242 43	2 162 43
14	Fidelity B. L. & S. A., Altoona,	S,	3	1887	2,616½	536½	55,547 56	55,547 56	. . . . .
15	Fidelity B. & L. A., Lebanon, . . . . .	.	1	1887	904	76	13,825 35	13,814 18	11 17
16	Fidelity B. A., Bristol, . . .	S,	2	1887	1,034	111½	14,355 19	14 318 47	536 72
17	Fame B. & L. A., Bridgeport, . . .	S,	16	1886	1,254	448	34,754 77	34,324 32	430 45
18	Franklin B. & L. A., Huntingdon, . . .	S,	6	1888	879	234½	27,259 87	26,818 39	441 48
19	Fireside B. & L. A., Pittsburgh, . . . . .	.	1	. .	2 774	228	27,125 78	27,125 78	.
					29,541	6,983¼	\$640,422 76	\$620,328 33	\$20,093 43

Paid withdrawals and matured stock.	Current expenses.	Total assets.	Total gains.	HOW ASSETS ARE INVESTED.			
				Loans.	Real estate.	Cash.	Sundries.
10.	11.	12.	13.	14.	15.	16.	17.
\$4,562 07	\$416 24	\$60,020 99	\$14,328 99	\$53,200 00	\$1,500 00	\$3,093 01	\$1,227 98
3 840 04	275 45	41,346 77	6,594 77	38 950 00	. . . . .	2,140 58	256 19
9,109 71	448 50	86,502 36	15,033 81	83,000 00	. . . . .	1,393 60	2,108 76
11,521 85	295 70	67,224 36	9,630 00	63,800 00	. . . . .	2,713 60	710 76
13,864 68	476 59	308,395 48	60,954 00	306,400 00	. . . . .	. . . . .	1,995 48
3,776 77	239 70	54 899 92	20,475 52	52,200 00	. . . . .	2,342 68	357 24
12,262 69	200 75	41,856 92	5,550 92	39,200 00	1,733 45	13 16	910 31
20,419 02	496 73	79,729 30	12,572 04	78,750 00	. . . . .	41 18	938 12
6,207 03	237 08	64,276 61	5,387 10	60,050 00	. . . . .	4,086 61	140 00
8,092 25	207 75	30,856 88	3,573 97	30,600 00	. . . . .	. . . . .	256 88
13,019 00	267 85	74,436 26	14,568 84	74,000 00	. . . . .	. . . . .	436 26
35,623 74	610 80	103,435 90	22,453 49	93 400 00	. . . . .	686 71	9,349 19
12,618 69	245 06	149,908 48	41,964 25	77,358 00	69,975 00	2,162 48	413 00
3,324 84	507 75	107,992 40	10,969 55	107,200 00	. . . . .	. . . . .	792 40
105 31	339 75	15,753 41	470 08	15,200 00	. . . . .	11 17	547 24
464 12	180 50	23,154 13	907 63	22,300 00	. . . . .	536 72	317 41
14,401 59	475 03	98,599 25	22,555 40	91,560 00	4,958 68	430 45	1,650 12
3 397 71	444 06	95,802 47	22,040 57	93,200 00	. . . . .	441 48	2,160 99
2,509 50	241 28	44,600 00	1,444 27	44,600 00	. . . . .	. . . . .	. . . . .
\$179,120 58	\$6,656 57	\$1,548,796 89	\$291,275 20	\$1,424,968 00	\$79,167 13	\$20,093 43	\$24,568 33

Office number.	NAME AND LOCATION OF ASSOCIATION.	Serials or terminating.	Age of association in years.	Date of latest annual report.	Total number of shares.	Number of shares borrowed on.	Cash receipts.	Cash expenditures.	Cash on hand at end of year.
G.	1.	2.	3.	4.	5.	6.	7.	8.	9.
1	Guarantee B. A., Philadel- phia,	S,	13	1888	2 334	669	\$73,302 66	\$73 000 41	\$302 25
2	German Union B. A., Phila- delphia,	S,	17	1888	2 298	584	45,624 79	45,357 48	267 31
3	German Cent al B. A., Phila- delphia,	T,	7	1888	806	386	29,969 98	21,859 55	8,110 43
4	Germantown Avenue B. A., Philadelphia,	S,	16	1888	1 479	362	30,273 42	30,173 84	99 58
5	Good Hope B. A., Philadel- phia,	S,	18	1888	2,213	428	56 035 17	54,172 15	1 863 02
6	Ge man Rising Sun No. 1, Philadelphia,	S,	12	1888	1 450	294	38,411 53	37 730 81	680 72
7	German South-Eastern B. A., Philadelphia,	T,	4	1888	1,406	357	26,340 11	22 341 27	3 998 84
8	Globe B. A. No. 3, Philadel- phia,	S,	15	1888	792	204½	23,146 20	23 146 20	. . . .
9	German Enterprise B. A., Philadelphia,	S,	7	1887	2,999	792	56,536 22	53,455 14	81 08
10	George W. Hyde L. & B. A. No 2, Philadelphia,	S,	14	1888	1,496½	283	31,084 61	29,563 23	1,516 33
11	George W Hyde L. & B. A. No 3, Philadelphia,	S,	3		1.130	124½	20,131 75	19,174 86	956 89
12	German B. A. (old), Phila- delphia,	T,	8		238	154	15 186 40	11 038 70	4,147 70
13	George W. Hyde S. F. & L. A., Philadelphia, . .	S,	15	1888	593½	109	15,098 11	9,347 96	5,750 13
14	Gurney B. & L. A., Phila- delphia,	S,	15	1887	695½	180	12 803 55	10,027 88	2 775 67
15	German B. A. (new), Phila- delphia,	T,	1	1888	1,401	105	21.993 34	21,993 34	. . . .
16	German B A., Scranton,	T,	9	1886	1,235	1,180	31,557 49	30,730 43	827 06
17	Greensburg B. & L. A., Greensburg,	S,	12	. .	1 694	370	22,057 83	29,688 82	2,369 01
18	Germania B. & S. A. No 2, Reading,	T,	4	.	141	95½	17,757 28	17,079 71	677 57
					24,401½	7,582½	\$577,310 44	\$542 886 85	\$34,423 59

Paid withdrawals and matured stock.	Current expenses.	Total assets.	Total gains.	HOW ASSETS ARE INVESTED.			
				Loans.	Real estate.	Cash.	Sundries.
10.	11.	12.	13.	14.	15.	16.	17.
\$11,812 90	\$370 40	\$135,186 31	\$21,522 76	\$133 800 00	. . . .	\$302 25	\$1,084 06
16,951 18	306 30	121,734 76	19,125 83	121 000 00	. . . .	267 31	469 45
18 547 78	311 34	85,044 61	17,417 66	77,200 00	. . .	8 110 43	734 18
12 163 64	310 20	79,631 16	14 102 23	79 200 00		99 58	331 58
24,208 31	727 75	154,885 82	38,152 89	90,350 00	62 462 80	1,863 02	210 00
16 429 56	226 25	60 545 31	9 430 16	58 800 00	.	680 72	1,064 89
10,218 47	300 80	76,352 83	7,309 62	71,400 00	. . .	3,998 84	953 99
17,778 10	218 10	41,725 50	7,044 02	41 250 00	. .		475 50
18 314 61	454 25	94 589 72	14 051 89	92,959 00	. . .	81 08	1,549 64
18,482 97	315 00	60,569 20	8 631 93	57 600 00	.	1,516 32	1,452 87
10 490 89	491 17	26 229 81	1 642 97	24 900 00	.	956 89	372 92
7,655 05	223 65	38,504 69	13,313 72	30,800 00	3 200 00	4,147 70	356 99
3,177 00	261 50	27,834 08	3,980 47	21,800 00	. . .	5,750 13	283 95
7,416 38	211 40	39,933 95	9,105 86	36,000 00	. .	2 775 67	1,158 28
.	489 34	20 390 00	184 36	19,740 00	. . .		650 00
.	272 52	236 910 71	102 961 95	23 600 00	. .	827 06	83 65
9,247 02	414 73	85,832 24	32 363 65	71 000 00	.	2 369 01	9,433 23
5,074 68	214 00	67 653 57	12 881 89	34,100 00	31,700 00	677 57	1 176 00
\$207,948 54	\$6 118 79	\$1,454,554 51	\$333 223 86	\$1,300,899 00	\$97,362 80	\$34,423 59	21 869 18

Office number.	NAME AND LOCATION OF ASSOCIATION.	Serial or terminating.	Age of association in years.	Date of latest annual report.	Total number of shares.	Number of shares borrowed on.	Cash receipts.	Cash expenditures.	Cash on hand at end of year.
H.	1.	2.	3.	4.	5.	6	7.	8.	9.
1	Householders B. & L. A., Philadelphia, . .	S,	14	1888	1,360½	213½	\$27,680 42	\$26 092 74	\$987 68
2	Home Builders' B. & L. A., Philadelphia, . .	S,	3	1888	1,689½	265½	32,727 35	32,627 35	. . . . .
3	Home Makers' B. & L. A., Philadelphia, . .	S,	4	1887	2,649½	539	46,785 10	43,785 10	. . . . .
4	Handel and Haydn B. & L. A., Philadelphia, . .	S,	8	1887	1,379	452	42,707 18	42 707 18	. . . . .
5	Hazel L. & B. A., Philadelphia, . .	S,	16	1888	727	104½	14,300 47	11,621 49	2,678 98
6	Homeward B. A., Philadelphia, . .	S,	10	1886	458½	171¾	19,944 25	13,497 08	6,647 17
7	Herman B. & L. A. No. 2, Philadelphia, . .	S,	10	1888	2,033	1,165	45 415 30	44,788 55	426 75
8	Home Seekers' B. & L. A., Philadelphia, . .	S,	4	1888	915	186	13 353 29	13 264 21	89 08
9	Homestead B. & L. A., Philadelphia, . .	T,	9	1888	1,292	408½	21,783 85	17,703 90	4,079 55
10	Hermann B. & L. A. No. 1, Philadelphia, . .	S,	10	1888	2 389	1,270	78,873 05	75 845 45	3,027 60
11	Hancock B. A., Philadelphia, . .	S,	9	1888	3,252	941	155,263 96	149 527 46	5,736 59
12	Hugh Dechan B. A., Philadelphia, . .	T,	8	1888	530	178	11,504 24	11,197 72	306 52
13	Harp B. & L. A., Philadelphia, . .	S,	4	1887	768	114½	13,710 77	12,471 90	1,238 87
14	Home B. A., Philadelphia, . .	S,	20	1888	1,099	242	36,418 67	33 819 81	2,598 86
15	Home B. S. of Frankford, Philadelphia, . .	S,	18	1888	971	161	25 796 89	19,445 68	6,351 21
16	Home B. & L. A. of Philadelphia, Philadelphia, . .	S,	15	1887	1,332	293	24,645 07	23,083 02	1,562 05
17	Hope S. & B. A., Allentown, . .	T,	7	1888	540	316	*10,000 00	9,273 89	726 11
18	Huntingdon Valley B. A., Huntingdon, . .	S,	17	1887	1,167	160	*10,000 00	8,832 51	1,167 49
19	Homestead B. & L. A. Homestead, . .	T,	2		1,028	112	5,066 42	5 000 00	66 42
20	Homestead B. & S. A., Lebanon, . .	S,	4	1886	1 975	419	23,949 05	28,740 70	208 35
21	Homestead B. & S. A. No. 2, Reading, . .	.	9	.	1,110	340½	29,477 95	28 960 63	517 32
22	Homestead B. & S. A. No. 3, Reading, . .	.	5		1,289	210	23,785 02	23,125 93	659 09
23	Homestead B. & S. A. No. 4 Reading, . .	..	3	. . .	1,485	229	27,917 66	27,917 66	. . . . .
24	Harmony B. & L. A., Scranton, . .	...	5	.	1,915	800	33,556 35	33,556 35	. . . . .
25	Home Security B. & L. A., McKeesport, . .	S,	1	1888	944	58	14,343 79	13,998 12	345 67
					34 302½	9,399½	\$794,006 10	\$754,784 43	\$39,221 67

Paid withdrawals and matured stock.	Current expenses.	Total assets.	Total gains.	HOW ASSETS ARE INVESTED.			
				Loans.	Real estate.	Cash.	Sundries.
10.	11.	12.	13.	14.	15.	16.	17.
\$13,179 40	\$521 95	\$58,110 93	\$10,172 25	\$53 423 25	\$3 7 0 00	\$937 68	.....
8 630 13	644 66	54,321 01	3,590 04	53,100 00	.....	.....	\$1,221 01
5,956 13	523 97	118,966 27	12,707 59	117,800 00	.....	.....	1,166 27
4,236 06	339 45	92,191 65	21,226 14	90 400 00	1,086 26	.....	705 39
4 208 63	279 05	23,354 78	6,708 57	20,675 80	.....	2 678 93	.. ..
5,975 21	263 00	52,149 88	15,719 97	34,250 00	10,850 00	6,447 17	602 71
13,427 05	365 50	234,502 81	51,451 62	233,000 00	.....	426 75	1 076 08
2,740 33	232 25	37,659 04	1,700 30	37,200 00	.....	39 08	369 96
5,626 15	377 75	100,905 49	31,135 20	96,700 00	.....	4 079 95	125 54
15,182 75	442 20	253,133 18	57,689 57	254 000 00	.....	3 027 60	1 105 58
32,630 24	494 38	195,152 35	36,413 34	188,200 00	.....	5,736 50	1,215 35
.....	194 00	70 785 72	19,562 30	70,400 00	.....	306 52	79 20
5,095 65	176 25	24,928 07	1,944 64	22 900 00	.....	1,238 87	739 20
5,155 93	239 93	62,377 11	11,783 69	59,400 00	.....	2,598 36	378 25
5,133 14	322 98	38,799 93	6,880 59	32,200 00	.....	6,351 21	248 77
8 565 33	397 05	67,977 50	11,636 06	58 700 00	6,587 10	1 562 05	1,123 35
2,000 00	274 23	71,080 11	14 015 28	66,495 00	3 500 00	726 11	359 00
2,000 00	236 25	33,279 99	5,557 28	32 050 00	.....	1,167 49	62 50
..... ..	125 00	22,502 40	1 542 00	22,400 00	.....	66 42	35 98
4,955 00	611 67	85,317 00	21 883 00	33 840 00	.....	208 35	1,263 65
..... ..	205 25	195,822 32	84 926 10	148 895 00	43,100 00	517 32	3,310 00
2,313 96	242 93	100,285 34	22,944 20	84,846 00	13,300 00	659 09	1,480 25
4,853 16	235 00	76,247 25	17,670 90	68 700 00	6,750 00	.....	797 25
225 50	287 75	162,594 50	29 134 60	160,000 00	.....	.....	2,594 50
1,791 25	602 53	11 993 16	394 16	11,000 00	.....	345 67	52 49
\$153,881 00	\$8,545 03	\$2,249,442 84	\$498,438 09	\$2,101,175 05	\$88,473 36	\$39,221 67	\$20,172 76

Office number.	NAME AND LOCATION OF ASSOCIATION.	Serial or terminating.	Age of association in years.	Date of latest annual report.	Total number of shares.	Number of shares borrowed on.	Cash receipts.	Cash expenditures.	Cash on hand at end of year.
J.	1.	2.	3.	4.	5.	6.	7.	8.	9.
1	John Mechesney B. A., Philadelphia,	S,	16	1888	709	113	\$21,751 07	\$17,587 68	\$4 163 39
2	Jackson B. & L. A., Philadelphia, . .	S,	16	1888	1 591	398½	33 063 30	27,797 02	5,171 28
3	James B. Cowden B. & L A., Philadelphia, .	S,	11	1887	957¼	278¼	20,633 95	18 891 65	1,742 30
4	Joseph R. Lyndall B. & L. A., Philadelphia, .	T,	8	. . .	107½	84	5,375 92	5,257 55	118 37
5	Jefferson B. & S. A. No. 2, Reading, . . .	T,	6	1886	966	93¾	33,399 68	33,399 68	. . . . .
6	Johnstown B. & L. A., Johnstown,	S,	13		549	104	11 570 96	11,378 80	192 16
					4 879¾	1,966½	\$125,799 88	\$114 312 38	\$11,487 50

I.									
1	Indian Queen B. A., Johnstown, . . .	S,	3	1887	1,824	196	\$32 270 34	\$30,410 11	\$1,860 23
2	Ironslides B. & L. A., Johnstown, . . .	S,	18	1887	427½	125	19,292 04	18,691 85	600 19
3	Investment B. & L. A., Johnstown.	S,	21	1888	2,095	698	73,178 56	68,608 14	4 570 42
4	Industry B. & L. A. No. 2, Johnstown, . .	S,	9	1886	283	144	16,570 80	15,450 72	1 120 08
5	Joy B. A., Johnstown, .	S,	4	1886	622	116	10,249 13	10,106 07	143 06
6	Income B. A., Johns- town,	S,	. . .	1887	934	227	22,837 48	19,996 01	2,841 47
7	John B. Stetson B. & L. A., Johnstown,	S,	8	1887	2,745	1,085	54,171 31	44 992 03	9 179 28
8	Integrity B. A., Johns- town, . . . . .	. .	1	1888	599	41	14,140 37	12,922 40	1 217 97
9	Iron Workers' B. A., Chester,	S,	5	. . .	1,231	114½	76 104 98	73,837 77	2 267 21
10	Industry B. & S. A., Reading, . . . . .	. .	11	.	858	381	33,496 62	32,516 93	979 59
					11,618¾	3,127½	\$352,311 53	\$327,532 03	\$24,779 50

Paid withdrawals and matured stock.	Current expenses.	Total assets.	Total gains.	HOW ASSETS ARE INVESTED.			
				Loans.	Real estate.	Cash.	Sundries.
10.	11.	12.	13.	14.	15.	16.	17.
\$4,306 32	\$276 07	\$30,072 10	\$8,500 89	\$22,600 00	\$3,000 00	\$4,163 39	\$308 71
4,235 34	221 68	85,540 16	23,466 33	79,625 00	. . . . .	5,271 28	643 83
711 80	247 85	57,980 81	14,221 31	55,650 00	. . . . .	1,742 30	588 51
. . .	150 00	17 095 02	6,774 65	16,800 00	. . . . .	118 37	176 65
8,970 71	227 54	100,447 80	31,008 60	78,211 05	21,100 00	. . . . .	1,336 75
4,093 07	284 08	21,876 10	5,816 95	20,820 00	615 15	192 16	248 79
\$22,317 24	\$1,407 22	\$313,211 99	\$89,788 73	\$273,706 05	\$24,715 15	\$11,487 50	\$3,393 29

\$5,811 36	\$234 75	\$42,136 73	\$2,261 74	\$40,200 00	. . . . .	\$1,860 23	\$76 50
10,481 24	341 55	26,955 29	6,008 77	24,925 00	\$1,200 00	600 19	230 10
33,566 24	541 90	150,462 97	31,756 53	144,100 00	. . . . .	4 570 42	1,792 55
3,217 60	240 09	30,116 97	8,552 97	28,800 00	. . . . .	1,120 08	196 89
2,603 62	213 45	23,800 66	3,652 44	23,200 00	. . . . .	143 06	457 60
9,302 26	363 25	52,018 17	9,768 17	45,400 00	3,535 00	2,841 47	241 78
8,794 07	277 54	226,539 28	59,060 01	217,000 00	. . . . .	9,179 28	360 00
105 00	433 65	9,870 31	177 73	8,200 00	. . . . .	1,217 97	452 34
7,021 00	1,079 52	65,788 45	10,595 13	62,900 00	. . . . .	2,267 21	621 24
.	234 98	184,231 37	52,724 50	157,656 00	17,800 00	979 59	7,795 78
\$80,902 39	\$3,980 68	\$311,920 20	\$184,558 04	\$752,381 00	\$22,535 00	\$24,779 50	\$12,224 70

Office number.	NAME AND LOCATION OF ASSOCIATION.	Serial or terminating.	Age of association in years.	Date of latest annual report.	Total number of shares.	Number of shares borrowed on.	Cash receipts.	Cash expenditures.	Cash on hand at end of year.
K.	1.	2.	3.	4.	5.	6.	7.	8.	9.
1	Kensington Workingmen's B. A. No. 2, Philadelphia, . . .	S,	15	1888	3,353	1,023	\$108,660 79	\$103 690 58	\$4,970 21
2	Kensington Industrial B. & L. A., Philadelphia, . .	. .	1	. . .	1,079	62½	15,214 62	14,476 52	738 10
3	Keystone B. A., Philadelphia, . . . . .	. . .	1	1887	973	44	11,874 40	8,288 19	3,586 21
4	Knickerbocker B. & L. A., Philadelphia,	S,	11	1886	605	212	15,215 72	7 966 36	7,249 36
5	Keystone B. & S. A. No. 2, Reading,	T,	5	1886	908	245	17,631 32	17,631 32	. . . . .
6	Keystone B. A., Altoona,	S,	10	1888	5,093½	325	103,422 35	101,909 44	1,512 91
7	Keystone B. & S. A. No. 3, Reading,	T,	3	. . .	1,108	188	19,144 29	19,144 29	. . . . .
					13,119½	1,159½	\$291,163 49	\$273,106 70	\$18,056 79

Paid withdrawals and matured stock.	Current expenses.	Total assets.	Total gains.	HOW ASSETS ARE INVESTED.			
				Loans.	Real estate.	Cash.	Sundries.
10.	11.	12.	13.	14.	15.	16.	17.
\$33,077 61	\$412 97	\$211,069 42	\$36,718 59	\$204,600 00	. . . . .	\$4,970 21	\$1,499 21
1,524 00	452 52	13,514 50	356 07	12,500 00	. . . . .	738 10	276 40
76 50	291 63	12,567 01	835 43	8,800 00	. . . . .	3,586 21	180 80
1,706 15	161 05	70,320 22	16,638 02	60,560 00	\$750 00	7,249 36	1,760 86
7,869 48	236 50	82,381 25	17,188 44	61,225 00	20,000 00	. . . . .	1,156 25
9,253 60	851 20	659,351 41	216,457 87	650,200 00	. . . . .	1,512 91	5,638 50
1,994 54	237 04	58,919 00	6,096 75	37,600 00	20,000 00	. . . . .	1,319 00
\$25,501 94	\$2,642 91	\$1,106,122 81	294,341 17	\$1,035,485 00	\$40,750 00	\$18,056 79	\$11,831 02

Office number.	NAME AND LOCATION OF ASSOCIATION.	Serial or terminating.	Age of association in years.	Date of latest annual report.	Total number of shares.	Number of shares borrowed on.	Cash receipts.	Cash expenditures.	Cash on hand at end of year.
L.	1.	2.	3.	4.	5.	6.	7.	8.	9.
1	Lehigh B. & L. A., Philadelphia, .	S.	8	1887	819	498	\$21,624 17	\$17,613 03	\$4,011 14
2	Lumbermen's B. & L. A., Philadelphia, .	S.	13	1888	1,580	331	57,818 76	57,818 76	. . . . .
3	Ledger B. & L. A. No. 2, Philadelphia, . . .	T.	8	1887	609	196 $\frac{1}{2}$	19,889 07	18,831 00	1,058 07
4	Lafayette S. & L. A., Philadelphia,	S.	28	1887	313	75	28 405 67	24,523 63	3,882 04
5	Lessing B. A., Philadelphia, . . .	S,	8	1888	2,737	1,236	66,486 91	66,322 57	164 34
	Laurel Hill B. A., Philadelphia, . .	S,	19	1888	1,283	527	32,197 63	27,873 07	4,324 56
7	Lebanon B. & L. A., Philadelphia, .	S,	9	.	1,192	622 $\frac{1}{2}$	25,656 36	22,899 02	2,757 34
8	Logan L. & B. A., Altoona,	S,	11	1888	4,635	2,056	89,935 74	89,513 21	422 53
9	Lower Merion B. & L. A., Delaware county,	S,	5	1888	1,311	329	32 153 39	31,873 41	274 98
10	Logan Square B. & L. A., Philadelphia, .	S,	14	.	265	106	32 287 06	31,640 18	646 88
11	Liberty B. & L. A. No. 3, Allegheny, .	. .	5	1888	1,909	465	31,852 91	31,351 94	500 98
					16,703	6,492	\$438,307 68	\$420,264 82	\$18,042 86

Paid withdrawals and matured stock.	Current expenses.	Total assets.	Total gains.	HOW ASSETS ARE INVESTED.			
				Loans.	Real estate.	Cash.	Sundries.
10.	11.	12.	13.	14.	15.	16.	17.
\$6 740 53	\$272 50	\$111,316 55	\$10,980 96	\$99,630 00	. . . . .	\$4 011 14	\$7,705 41
28,179 08	587 05	105,939 00	20,275 96	72,200 00	\$31,500 00	. . .	2 239 00
3 851 00	230 00	75,710 29	17,144 83	73 538 50	.	1 058 07	1,113 72
22,275 20	659 45	36,270 95	8 690 03	15 150 00	16,826 74	3 882 04	412 17
10,443 13	554 07	258,013 51	47,111 75	257,230 00	. . .	134 34	639 17
13,772 17	318 75	110,447 58	22 113 58	105,400 00	. . .	4 324 56	723 02
6 671 12	293 69	128,180 19	33,600 97	124,500 00	. .	2,757 34	922 85
12,486 68	775 75	419,712 88	118,246 52	41,700 00	6,000 00	422 53	1 590 35
11,061 67	361 74	72,020 67	11,139 65	68,955 00	. . .	274 93	2 780 69
31,069 90	174 85	32 510 28	8,857 73	31,800 00	. . . .	646 88	63 40
8,560 40	184 60	47 030 98	5 558 98	43,500 00	.	500 98	30 00
\$155,107 89	\$4 407 45	\$1 397,192 88	\$208 714 01	\$1,306 553 50	\$54,328 74	\$18,042 86	\$18 269 78

Office number.	NAME AND LOCATION OF ASSOCIATION.	Serial and terminating.	Age of association in years.	Date of latest annual report.	Total number of shares.	Number of shares borrowed on.	Cash receipts.	Cash expenditures.	Cash on hand at end of year.
M.	1.	2.	3.	4.	5.	6.	7.	8.	9.
1	Moyamensing B. A., Philadelphia,	S,	12	1888	456	108½	\$8,749 93	\$8,670 75	\$79 18
2	Mantua B. A., Philadelphia,	S,	12	1888	3,522	798½	110,359 04	99 418 28	10 940 76
3	Memorial B. A., Philadelphia,	S,	10	1887	976	237	25 808 87	24 328 95	1 479 92
4	Merchants & Mechanics' B. & L. A., Philadelphia,	S,	6	1888	752	132½	*22 000 00	14 090 88	7,909 12
5	Milton B. A. No. 2, Philadelphia,	S,	18	1887	526	225	13,395 62	12 356 76	1 028 86
6	Monumental B. & L. A., Philadelphia,	S,	33	1885	656	186½	26 172 83	26 015 77	157 06
7	Mathias W. Baldwin S. & L. A., Philadelphia,	T,	7	1888	516	278¼	29 717 26	28 452 68	1,264 58
8	Michael Davitt B. & L. A., Philadelphia,	S,	4	1888	2,287	383½	41 914 05	39,695 22	2,218 83
9	Mutual Benefit B. & L. A., Philadelphia,	S,	9	1886	1,836½	391	36,154 66	27,159 58	8,995 08
10	Merchants and Salesmen's B. & L. A., Philadelphia,	S,	3	1888	999	147½	22 868 25	18,388 53	4,479 72
11	Marlborough B. & L. A., Philadelphia,	S,	14	1888	1,694½	328½	47,642 93	35 282 32	12,360 61
12	Mount Vernon B. A., Philadelphia,	S,	20	1887	273½	109¼	9,582 59	8,039 65	1,542 94
13	Miller B. & L. A., Philadelphia,	S,	20	1887	1,051	197¾	17,744 58	16 786 54	958 04
14	Mutual Co-operative B. A., Philadelphia,	S,	2	1887	1 889½	199	21,829 40	25 271 62	6,557 78
15	Mercantile B. & L. A., Philadelphia,	S,	6	1888	2,514	405½	52 644 96	52,034 82	610 14
16	Model B. & L. A., Philadelphia,	S,	14	1888	518	154	14 235 77	13,398 29	837 48
17	Mortgage Security B. & L. A., Philadelphia,	.	1	1888	453	23	6,002 17	5,032 35	969 82
18	Mutual Friends' B. & L. A., Philadelphia,	S,	18	1888	1,160½	278½	30,376 84	26,124 16	4,252 68
19	Morton B. & L. A., Morton,	S,	3	1888	955	104½	11,467 84	11 407 84	. . . . .
20	Mechanics' B. & L. A., Mauch Chunk,	T,	7	1887	717	417	*12 000 00	11 982 32	17 68
					23 552½	5,102½	\$570 587 59	\$573,937 31	\$66,660 28

Paid withdrawals and matured stock.	Current expenditures.	Total assets.	Total gains.	HOW ASSETS ARE INVESTED.			
				Loans.	Real estate.	Cash.	Sundries.
10.	11.	12.	13.	14.	15.	16.	17.
\$6,555 25	\$96 00	\$22,674 97	\$5,194 02	\$21,700 00	\$550 00	\$79 18	\$345 19
18,046 11	533 05	173,103 21	28,563 12	160,300 00	. . . . .	10,940 76	1,862 45
5,158 63	271 24	69,457 05	17,167 59	67,400 00	. . . . .	1,479 92	577 13
*4,000 00	140 60	33,542 66	5,747 60	30,307 34	. . . . .	7,909 12	326 20
1,622 36	326 40	27,399 52	5,609 17	25,000 00	. . . . .	1,028 86	1,370 66
5,831 02	239 75	38,433 02	6,696 13	37,300 00	. . . . .	157 06	975 96
23,640 00	237 75	56,983 04	13,796 04	55,650 00	. . . . .	1,264 53	63 46
10,004 95	337 86	92,574 83	10,950 83	83,050 00	6,602 00	2,218 83	704 00
9,014 33	325 25	83,287 40	18,739 40	78,184 00	. . . . .	8,995 08	1,103 32
3,417 07	323 65	33,946 96	2,518 64	28,675 00	. . . . .	4,479 72	792 24
16,840 65	314 50	95,095 88	15,803 91	77,700 00	4,000 00	12,360 61	1,035 27
1,950 45	279 20	26,637 14	5,263 52	23,450 00	1,600 00	1,542 94	44 20
4,103 54	188 00	40,696 28	6,746 82	39,575 00	. . . . .	958 04	163 24
2,155 70	241 62	49,491 93	3,418 65	42,175 00	. . . . .	6,557 78	759 15
12,001 06	633 76	66,479 50	11,028 50	81,050 00	3,900 00	610 14	919 36
9,460 64	237 45	32,979 03	7,506 95	30,800 00	. . . . .	837 48	1,341 55
85 00	346 35	5,814 83	82 94	4,600 00	. . . . .	969 82	245 06
23,678 44	288 95	60,312 43	9,649 62	53,650 00	. . . . .	4,252 68	409 75
2,829 88	190 08	21,234 89	1,517 31	20,800 00	. . . . .	. . . . .	334 89
2,000 00	258 00	83,988 31	23,697 15	83,400 00	. . . . .	17 08	570 63
\$164,265 23	\$5,810 04	\$1,144,232 93	\$199,698 46	\$1,046,816 34	\$16,652 00	\$60 600 28	\$14,004 31

Office number.	NAME AND LOCATION OF ASSOCIATION.	Serial or terminating.	Age of association in years.	Date of latest annual report.	Total number of shares.	Number of shares borrowed on.	Cash receipts.	Cash expenditures.	Cash on hand at end of year.
N.	1.	2.	3.	4.	5.	6.	7.	8.	9.
1	Ninth ward B. & L. A. No. 2, Philadelphia.	S,	11	1888	578	242½	\$12,452 87	\$11,777 54	\$675 33
2	National Security B. A., Philadelphia.	S,	7	1888	1 554	476	35,477 65	23,060 98	2,416 67
3	North American B. & L. A., Philadelphia.	S,	4	1887	573	89½	12,930 17	8,199 15	4,731 02
4	Northwestern B. A., Philadelphia.	S,	1	1888	621	21	7,694 50	4,417 25	3,277 25
5	Norris Square B. & L. A., Philadelphia.	S,	18	1888	2,665½	806¼	68,472 13	67,602 55	869 59
6	North Star B. & L. A., Philadelphia.	S,	17	1887	1,577	365	38,203 20	37,677 99	525 21
7	North Philadelphia B. & S. A., Philadelphia.	S,	2	1888	912	117¼	20,006 58	20,006 58	. . . . .
8	National S. F. & B. A., Philadelphia.	S,	27	1888	4,758	1,536	101,485 46	98,915 58	2,569 88
9	New Concordia B. A., Philadelphia.	T,	1	1886	2,284	138	30,343 55	28,985 29	1,358 26
10	Northern Liberties B. & L. A., Philadelphia.	S,	13	1886	1,496	354	47,657 48	42,595 72	5,061 76
11	North-west B. & L. A., Philadelphia.	S,	3	1888	684	60	10,293 87	8,013 16	2,280 71
12	Neversink B. & S. A. No. 2, Reading.	T,	5	.	662½	61½	27,781 25	26,802 45	978 80
13	Neversink B. & S. A. No. 3, Reading.	T,	2	.	905	72	27,669 75	27,423 99	245 76
14	North-west B. & S. A., Reading.	T,	3	.	1,361	111	31,879 05	31,879 05	. . . . .
15	National B. & S. A., Reading.	T,	8	. . .	675	196½	14,138 98	14 138 98	. . . . .
16	North-east B. & S. A., Reading.	S,	2	1886	851½	105½	29,407 95	29,407 95	. . . . .
					22,057½	4,752	\$515,894 44	\$490,904 21	\$24,990 23

Paid withdrawals and matured stock.	Current expenses.	Total assets.	Total gains.	HOW ASSETS ARE INVESTED.			
				Loans.	Real estate.	Cash.	Sundries.
10.	11.	12.	13.	14.	15.	16.	17.
\$2 119 06	\$208 48	\$50,365 45	\$4,650 19	\$49,500 00	. . . . .	\$675 33	\$190 12
9,068 02	237 25	98,207 25	14,227 39	95,600 00	. . . . .	2,416 67	190 58
4,823 00	326 15	22,902 10	1,932 10	17,950 00	. . . . .	4,731 02	221 08
151 80	295 45	7,691 47	235 98	4,200 00	. . . . .	3,277 25	214 22
20,718 65	383 90	163,360 21	31,237 62	161,250 00	. . . . .	869 58	1,240 63
8,289 09	341 52	83,263 21	16,263 21	82,700 00	. . . . .	525 21	38 00
4 057 28	206 80	23,639 37	1,002 57	23,500 00	. . . . .	. . . . .	139 37
23,912 97	710 38	312,513 86	77,895 82	307,200 00	. . . . .	2,569 88	2,743 98
.	605 29	29,079 42	810 82	27,600 00	. . . . .	1,358 26	121 16
16,376 59	309 10	90,570 60	16,503 85	70,800 00	\$13,900 00	5,061 76	808 84
968 51	228 20	14,658 55	982 09	12,000 00	. . . . .	2,280 71	377 84
7,080 56	247 54	102 886 30	42,000 00	69,674 00	31,500 00	978 80	733 50
.	238 90	51,699 26	*6,000 00	36,000 00	13,500 00	245 76	1,953 50
6,714 13	247 42	65,559 75	*6,000 00	40 563 00	24,000 00	. . . . .	996 75
1,806 74	186 00	91,499 50	26,547 75	64,942 50	24,550 00	. . . . .	2,007 00
6,839 25	229 70	54,766 50	*6,000 00	52 750 00	. . . . .	. . . . .	2,016 50
\$112,925 65	\$5,002 08	\$1,262 662 80	\$252 289 19	\$1,116,229 50	\$107,450 00	\$24,990 23	\$13,993 07

Office number.	NAME AND LOCATION OF ASSOCIATION.	Serial or terminating.	Age of association in years.	Date of latest annual report.	Total number of shares.	Number of shares borrowed on.	Cash receipts.	Cash expenditures.	Cash on hand at end of year.
0.	1.	2.	3.	4.	5.	6.	7.	8.	9.
1	Old Reliance B. & L. A., Philadelphia,	S,	8	1886	547 $\frac{1}{2}$	143	\$13,396 41	\$12,240 45	\$1,155 96
2	Oxford B. A., Philadel- phia,	S,	3	1888	2,750	493	93,159 13	92 448 74	710 39
3	Our B. A., Philadel- phia,			1838	2,206 $\frac{1}{2}$	511 $\frac{3}{4}$	55,128 65	53 546 84	1 581 21
4	Oakdale B. & L. A., Philadelphia,	S,	17	1887	1,569	464	. . . . .	. . . . .	. . . . .
					7,073	1,611 $\frac{3}{4}$	\$161,684 19	\$158,236 03	\$3,448 1

Paid withdrawals and matured stock.	Current expenses.	Total assets.	Total gains.	How Assets are Invested.			
				Loans.	Real estate.	Cash.	Sundries.
10.	11.	12.	13.	14.	15.	16.	17.
\$6,298 00	\$203 05	\$30,389 70	\$5,006 31	\$28 600 00	. . . . .	\$1,155 96	\$633 74
42,818 28	355 90	83,785 80	6,028 80	82,280 00	. . . . .	710 39	795 41
6,734 34	547 50	112,122 65	19,717 92	108,850 00	. . . . .	1 581 81	1,690 84
.	*400 00	85,700 00	20,689 15	85,700 00	. . . . .	. . . . .	. . . . .
\$55,850 62	\$1,506 45	\$311,998 15	\$51,442 17	\$305,430 00	. . . . .	\$3,448 16	\$3 119 99

Office number.	NAME AND LOCATION OF ASSOCIATION.	Serial or terminating.	Age of association in years.	Date of latest annual report.	Total number of shares.	Number of shares borrowed on.	Cash receipts.	Cash expenditures.	Cash on hand at end of year.
P.	1.	2.	3.	4.	5.	6.	7.	8.	9.
1	Philadelphia B. A., Philadelphia, . . .	S,	24	1888	1,539	457 $\frac{1}{2}$	\$53,314 87	\$50,360 14	\$2,954 73
2	Provident B. & L. A., Philadelphia, . . .	S,	21	1888	1 310	395	34 533 24	29,996 17	4,637 07
3	Passyunk B. A., Philadelphia, . . .	T,	4	1886	1,295	333	26 707 54	23,503 15	3,202 39
4	Parnell B. & L. A., Philadelphia, . . .	T,	4	1887	487	121	9 639 39	9,109 71	529 63
5	Pennsylvania B. & L. A. No. 2, Philadelphia, . . .	S,	31	1888	2,958	752 $\frac{1}{2}$	70 873 46	66,430 42	4 443 04
6	Patterson B. & L. A., Philadelphia, . . .	S,	1	1888	803	39	8 878 55	8,499 35	379 20
7	Pequea B. & L. A., Philadelphia, . . .	S,	7	1888	2,583	473 $\frac{1}{2}$	117,111 63	116,095 61	1,016 07
8	Penn Township S. & L. A., Philadelphia, . . .	S,	5	1887	1,067	152	27,632 81	27,632 81	. . . . .
9	Penn Square B. & L. A., . . .	S,	17	1837	2,443	574 $\frac{1}{2}$	47,787 65	46,826 36	961 29
10	Prosperity B. & L. A., Philadelphia, . . .	S,	5	1885	555	101	11,131 21	11,131 21	. . . . .
11	Phoenix B. & L. A., Philadelphia, . . .	S,	9	1887	2,956	942	106,099 25	105,439 23	660 C2
12	Powelton B. A., Philadelphia, . . .	S,	17	1888	2,513	492 $\frac{1}{2}$	66,282 97	64,740 26	1,542 71
13	Protective B. A., Philadelphia, . . .	S,	8	1887	1,021	309 $\frac{1}{2}$	22,137 40	18,631 14	3,506 26
14	Prospect B. & L. A., Philadelphia, . . .	S,	5	1888	1,065	288 $\frac{1}{2}$	30,773 40	23,756 94	1,016 46
15	Putnam B. S., Philadelphia, . . .	S,	10	1837	977 $\frac{1}{2}$	296 $\frac{1}{2}$	22,664 18	21 967 93	696 25
16	Penn Mutual B. & L. A., Philadelphia, . . .	S,	12	1888	1,755	515	43,122 42	43,065 83	56 59
17	Pennsylvania B. & L. A., Roxborough, Philadelphia, . . .	. . .	1	1887	1,554	96	21 C71 24	21,063 99	7 25
18	Protective B. & L. A. No. 3, Philadelphia, . . .	S,	4	1888	837	159 $\frac{1}{4}$	17,865 24	16,718 78	1,146 46
19	Pottsville B. & L. A. No. 2, Pottsville, . . .	S,	2	1887	877	98	12,511 90	11 514 39	997 51
20	Phoenix B. A., Phoenixville, . . .	S,	5	. .	582 $\frac{1}{2}$	102 $\frac{1}{2}$	18 365 41	17,745 32	620 09
21	People's B. & L. A., Lebanon, . . .	S,	10	1886	3,148	1,112	79,102 96	79,102 96	. . . . .
22	People's B. & L. A., York, . . .	S,	9	. . .	2,163	733	70,186 22	70,186 22	. . . . .
					34,552	8,546 $\frac{1}{2}$	\$917,891 99	\$839,517 92	\$28,374 07

Paid withdrawals and matured stock.	Current expenses.	Total assets.	Total gains.	HOW ASSETS ARE INVESTED.			
				Loans.	Real estate.	Cash.	Surpluses.
10.	11.	12.	13.	14.	15.	16.	17.
\$10,166 96	\$272 99	\$103,115 80	\$21,260 08	\$96,500 00	\$2,500 00	\$2,954 73	\$1,161 07
9,863 32	370 90	79,733 07	18,673 59	72,225 00	2,160 00	4 637 07	711 00
10,331 33	371 82	71,029 35	8,767 15	67,600 00	. . . . .	3,203 39	225 96
3,834 46	189 25	26,254 32	2,878 17	25,200 00	. . . . .	529 63	524 64
14,122 18	720 94	150,634 95	30,808 45	143,000 00	. . . . .	4,443 04	3,241 91
394 25	305 10	8,628 07	210 07	7,800 00	. . . . .	379 20	448 87
19 731 23	335 53	175,559 49	30,821 73	173,627 80	. . . . .	1,016 07	915 62
5,693 75	210 40	30,778 81	1,795 95	30,490 00	. . . . .	. . . . .	378 81
11,610 36	814 55	123,696 90	24,410 85	110,900 00	10,700 00	961 29	1,135 61
5,418 00	241 00	21,376 23	2,338 21	20,200 00	. . . . .	. . . . .	1,176 23
14,125 07	464 90	210,051 45	50,555 82	208,000 00	. . . . .	660 02	1,391 43
26,331 59	418 20	100,643 53	17,144 07	98,500 00	. . . . .	1,542 71	600 82
9,035 94	503 00	67,063 97	11,252 59	61,500 00	. . . . .	3 506 26	2,057 71
5,807 69	234 25	59,642 43	9,969 30	57,700 00	. . . . .	1,016 46	925 97
11,691 29	176 70	60,716 55	12,893 04	59,375 00	. . . . .	696 25	645 30
22,593 39	444 90	104 832 25	20,587 25	103 075 00	. . . . .	56 59	1,700 66
571 00	392 99	19,259 45	606 06	19,200 00	. . . . .	7 25	52 20
5,095 31	433 47	33,804 44	2,479 40	31,850 00	. . . . .	1,146 46	867 93
2,233 79	364 60	20,750 44	1,104 88	19,200 00	400 00	997 51	152 93
5,002 44	173 85	26,445 71	2,469 71	20,500 00	5,325 62	620 09	. . . . .
110 50	695 51	225 532 40	57,113 86	222,400 00	. . . . .	. . . . .	3,132 40
21,938 92	335 92	92 845 45	11,223 18	91,625 00	. . . . .	. . . . .	1,220 45
\$215,132 82	\$8,527,77	\$181,445 06	\$339,363 41	\$1,740,377 80	\$21,085 62	\$28,374 07	\$22 607 57

Office number.	NAME AND LOCATION OF ASSOCIATION.	Serial or terminating.	Age of association in years.	Date of latest annual report.	Total number of shares.	Number of shares borrowed on.	Cash receipts.	Cash expenditures.	Cash on hand at end of year.
R.	1.	2.	3.	4.	5.	6.	7.	8.	9.
1	Rldge Avenue B. & L. A., Philadelphia,	S,	19	1888	2,660	736 $\frac{1}{2}$	\$72 035 25	\$69,190 08	\$2,895 17
2	Rhein (old) B. A., Philadelphia,	T,	10	1886	740	740	35 758 89	31,577 23	4 181 65
3	Red Star B. & L. A., Philadelphia,	S,	7	1888	665	164	21 114 58	19,563 27	1,546 31
4	Rose B. & L. A., Philadelphia,	S,	2	1888	1,037	90 $\frac{1}{4}$	14,652 44	13 474 63	1,177 81
5	Rhein B. A., Philadelphia,	T,	2	1888	1,820	263	36 997 69	35,293 91	1,703 78
6	R. B. Taney B. A., Philadelphia,	S,	3	1887	586 $\frac{1}{2}$	87 $\frac{3}{4}$	10 074 29	9,042 53	1,031 76
7	Royal B. A., Philadelphia,	S,	1	1888	1,435	36 $\frac{1}{2}$	8 883 49	8,417 16	466 33
8	Rutledge Mutual B. & L. A., Philadelphia,	S,	3	1888	1,465	201	34 309 73	29,557 48	4 732 25
9	Real Estate L. A., Philadelphia,	S,	5	1888	1 171	167 $\frac{1}{2}$	20 910 03	18,310 66	2,599 37
10	Richmond B. & L. A., Philadelphia,	S,	19	1887	1 868 $\frac{1}{2}$	667 $\frac{3}{4}$	57,316 73	53,832 61	8 484 12
11	Randolph B. & L. A., Philadelphia,	S,	15	1888	2,418 $\frac{1}{2}$	512 $\frac{3}{4}$	62,792 48	56 959 38	5,833 10
12	Resolute B. & L. A., Philadelphia,	S,	10	1888	1,439 $\frac{1}{2}$	347 $\frac{3}{4}$	30,734 79	30,628 72	106 07
13	Republic B. & L. A., Philadelphia,	S,	15	1888	486 $\frac{1}{2}$	79	15,643 16	15,170 02	473 14
14	Republic B. & L. A. No. 2, Philadelphia,	S,	14	1888	626 $\frac{1}{4}$	121 $\frac{1}{2}$	38,772 55	38,772 55	. . . . .
15	Richmond Mutual B. & L. Association,	S,	12	1887	2,051	490 $\frac{1}{2}$	45,342 98	36,197 41	9,145 57
16	Railroad Employees L. & B. A., Philadelphia,	S,	18	1887	1,432	176	89,656 70	89,656 70	. . . . .
17	Ridley B. & L. A., Philadelphia,	S,	12	1888	661	200	12,672 40	11,879 09	793 31
18	Ritchie B. & L. A. No. 2, Philadelphia,	S,	5	1887	516 $\frac{1}{2}$	97	11,044 87	10,665 70	379 17
19	Robert Blum B. A., Philadelphia,	S,	17	1887	2 410	512	39,469 86	31,043 32	8,426 54
20	Ringgold B. & S. A., Reading,	T,	3	.	1,320	187 $\frac{1}{2}$	25,693 79	25,693 79	. . . . .
21	Relief B. & L. A., Philadelphia,	S,	. .	1888	355	97 $\frac{1}{4}$	20,282 50	15,840 90	4 441 60
					27,164 $\frac{1}{2}$	5,475 $\frac{1}{2}$	\$704 209 20	\$650,772 14	\$53,437 06

Paid withdrawals and matured stock.	Current expenses.	Total assets.	Total gains.	HOW ASSETS ARE INVESTED.			
				Loans.	Real estate.	Cash.	Sundries.
10.	11.	12.	13.	14.	15.	16.	17.
\$20,859 83	\$455 25	\$152,665 64	\$28,447 64	\$147,350 00	.....	\$2,895 17	\$2,420 47
2 979 06	270 00	152,181 66	59,836 40	143,000 00	.....	4,181 66	.....
7,985 12	183 15	34,816 59	5,116 59	32,800 00	.....	1,546 31	470 28
2,466 74	230 60	17,454 70	732 65	15,861 40	.....	1,177 81	415 49
7,781 48	312 43	54,888 39	2 220 40	52,600 00	.....	1,703 78	584 61
1,825 18	162 35	20,413 85	1,448 07	19,050 00	.....	1,031 76	332 09
490 34	526 82	8,342 69	167 80	7,400 00	.....	466 33	476 36
2,620 83	286 60	49 556 29	1,586 97	44,225 00	.....	4,752 25	579 04
4,563 91	146 75	36,606 81	3,854 28	33,500 00	.....	2,599 37	507 44
24,195 19	256 62	141,100 00	34,007 76	133,550 00	\$2,500 00	3,484 12	1,565 88
17,313 38	691 00	115,119 49	13,142 54	107,750 00	.....	5,833 10	1,536 39
13,557 90	361 50	77,297 20	14,071 27	69,550 00	6,733 92	106 07	907 21
8 505 50	451 98	21,331 73	5,159 26	18,330 00	.....	473 14	2,518 59
17,615 85	472 16	31,683 10	7 323 72	30,000 00	.....	.....	683 10
18,974 26	362 33	108,716 10	22,334 06	98 050 00	.....	9,245 57	1,520 53
45,578 88	326 32	74,886 55	11,856 05	68 529 34	5,750 00	.....	607 21
6,436 06	125 75	41,831 45	9,699 26	40,000 00	.....	743 31	1,038 14
6,041 91	123 79	20,057 05	2,659 42	19 400 00	.....	379 17	277 88
7,719 67	423 65	111,657 98	19,936 37	102,400 00	.....	8,428 54	831 42
5,079 33	212 17	69,672 50	21,318 00	47,428 00	21,400 00	.....	844 50
1 405 85	288 00	34 243 08	3,796 85	21,200 00	3,800 00	4,441 60	4,801 88
\$224,000 32	\$6,669 22	\$1,373,512 83	\$263,715 33	\$1,256,673 74	\$40,183 92	\$53,437 06	\$22,918 11

Office number.	NAME AND LOCATION OF ASSOCIATION.	Serial or terminating.	Age of association in years.	Date of latest annual report.	Total number of shares.	Number of shares borrowed on.	Cash receipts.	Cash expenditures.	Cash on hand at end of year.
S.	1.	2.	3.	4.	5.	6.	7.	8.	9.
1	Second Ward B. & L. A., Philadelphia, . . .	S,	15	1888	50 $\frac{1}{2}$	150 $\frac{1}{2}$	\$16,035 53	\$15,836 81	\$198 72
2	Surety B. & L. A., Philadelphia, . . .	S,	18	1888	1,007	234	32,640 85	32,639 49	1 36
3	Second St. Mark's B. & L. A., Philadelphia, . . .	S,	10	1888	2,497 $\frac{1}{2}$	45 $\frac{1}{2}$	39,598 85	39,251 64	347 21
4	Second German Central B. A., Philadelphia, . . .	T,	6	1888	1,020	377	36,060 50	24,395 13	11,665 37
5	Susquehanna B. & L. A. No. 2, Philadelphia, . . .	. . .	1	1888	715	31	6,937 12	6,796 77	140 35
6	Successful B. A., Philadelphia, . . .	S,	16	1887	447 $\frac{1}{2}$	105 $\frac{1}{2}$	12,674 71	9,011 42	3,663 29
7	Shamrock B. A., Philadelphia, . . .	T,	4	1887	1,479 $\frac{1}{2}$	328 $\frac{1}{2}$	34,694 66	29,620 12	5,074 54
8	Second Rhein B. A., Philadelphia, . . .	T,	8	1887	494	297	17,873 58	15,811 95	2,061 63
9	Second Southwestern B. A., Philadelphia, . . .	S,	29	1888	730	156	19,125 73	16,639 09	2,436 69
10	Second Girard Avenue B. A., Philadelphia, .	S,	9	1888	3,011	1,602	76,000 51	75,935 72	64 79
11	Spring Garden B. A., Philadelphia, . . .	T,	10	1888	283	268	8,580 37	8,340 21	240 16
12	Solar B. A., Philadelphia, . . .	S,	8	1888	865 $\frac{1}{2}$	276 $\frac{1}{2}$	22,295 24	17,816 18	4,479 06
13	Second Phoenix B. & L. A., Philadelphia, . . .	S,	7	1887	1,439	419	55,504 35	55,504 35	. . . . .
14	Susquehanna Avenue B. A. No. 1, Philadelphia, . . .	S,	15	1888	3,542	1,244	83,809 02	80,867 64	2,941 33
15	Safeguard B. & L. A., Philadelphia, . . .	S,	14	1888	320	97 $\frac{1}{2}$	8,861 41	8,376 03	485 38
16	Seventh Humboldt B. & L. A., Philadelphia, . . .	S,	9	1887	1,445	453	38,672 78	36,046 65	2,626 13
17	Shackamaxon B. A. No. 2, Philadelphia, . . .	S,	11	1887	894 $\frac{1}{2}$	171 $\frac{1}{2}$	60,346 52	59,578 53	767 99
18	Second Caledonia B. A., Philadelphia, . . .	S,	16	1886	364	98	10,425 59	9,945 15	480 44
19	Sepviva B. A., Philadelphia, . . .	S,	31	1888	2,698 $\frac{1}{2}$	833 $\frac{1}{2}$	59,296 96	55,453 31	3,843 65
20	St. Agatha's B. & L. A., Philadelphia, . . .	S,	14	1888	1,731 $\frac{1}{2}$	193 $\frac{1}{2}$	37,991 65	32,332 07	5,659 58
21	St. Timothy's B. & L. A., Philadelphia, . . .	S,	14	1888	1,510	518 $\frac{1}{2}$	41,215 32	40,096 67	1,118 65
22	St. Thomas B. & L. A., Philadelphia, . . .	S,	2	1888	631	63	12,758 02	12,649 23	108 74
23	Sherman B. & L. A., Philadelphia, . . .	S,	. . . . .	. . . . .	1,461	401	26,968 85	25,378 94	1,589 91
24	Sun B. A., Philadelphia, . . .	S,	9	. . .	439	284	9,188 06	9,188 06	. . . . .
25	Schuylkill L. & B. A., Philadelphia, . . .	S,	19	1887	2,582 $\frac{1}{2}$	901 $\frac{1}{2}$	85,141 14	83,234 63	1,906 51
26	South Philadelphia B. & L. A., Philadelphia, . . .	S,	16	. . .	193	79	12,444 30	10,007 37	2,436 93
27	Stephen Girard S. F. & B. A., Philadelphia, . . .	S,	15	1888	749	149 $\frac{1}{2}$	20,349 43	20,349 43	. . . . .
28	State Mutual S. F. L. & B. A., Philadelphia, . . .	S,	16	1888	697 $\frac{1}{2}$	144 $\frac{1}{2}$	39,993 42	39,993 42	. . . . .
29	Second B. & L. A. of Lansford, Lansford, .	. . .	1	1888	1,177	89	14,612 02	14,594 53	17 49
30	Summit Hill B. & L. A., Summit Hill, . . .	. . .	1	1887	1,181	80	14,586 27	11,250 65	3,335 62

Paid withdrawals and matured stock.	Current expenses.	Total assets.	Total gains.	HOW ASSETS ARE INVESTED.			
				Loans.	Real estate.	Cash.	Sundries.
10.	11.	12.	13.	14.	15.	16.	17.
\$933 21	\$311 50	\$32,570 20	\$7,009 40	\$30,100 00	\$1,500 00	\$193 72	\$771 48
21,266 50	317 79	59,886 36	11,283 36	47,725 00	9,900 00	1 36	2,260 00
13,095 94	389 30	94,591 37	23,603 50	91,100 00	600 00	347 21	2,524 16
17,517 21	227 92	87,860 85	14,229 00	75,400 00	. . . . .	11,665 37	795 48
124 50	373 54	6,759 18	128 43	6,200 00	. . . . .	140 35	418 83
5,313 47	147 95	24,716 56	5,492 56	20,750 00	. . . . .	3,663 29	303 27
4,171 37	233 75	81,856 76	9,958 37	75,800 00	. . . . .	5,074 54	932 23
3,289 90	247 00	62,846 60	14,669 12	59,900 00	. . . . .	2,061 63	884 97
*8,000 00	322 60	40,012 01	7,814 99	31,125 00	4,575 00	2,436 69	1,875 34
20,825 12	510 60	321,064 77	65,683 03	320,400 00	. . . . .	64 79	599 98
1,139 00	201 21	53,875 72	18,267 65	53,600 00	. . . . .	240 16	35 56
3,522 33	233 80	61,863 86	14,615 11	55,300 00	. . . . .	4,479 06	2,089 80
3,507 60	376 75	100,603 46	20,719 75	99,800 00	. . . . .	. . . . .	803 46
33,618 78	615 10	172,623 14	27,071 14	169,182 05	. . . . .	2,941 38	499 71
4,432 03	227 95	20,333 30	5,174 75	19,500 00	. . . . .	435 38	402 92
10,196 34	407 45	95,147 69	19,842 79	90,600 00	700 00	2,626 13	1,221 56
52,482 13	146 35	35,486 99	5,151 02	34,250 00	. . . . .	767 99	469 00
1,617 35	127 80	24,091 44	3,812 12	19,600 00	. . . . .	480 44	11 00
14,014 61	312 95	174,937 55	34,818 74	170,930 00	. . . . .	3,813 65	163 90
*20,000 00	*300 00	74,811 63	11,646 10	67,018 00	1,200 00	5,659 53	934 05
17,599 85	296 82	107,460 08	24,444 08	103,700 00	1,800 00	1,118 65	841 43
7,459 91	210 87	13,264 70	671 04	12,600 00	. . . . .	103 74	555 96
8,766 63	316 02	95,851 81	20,703 47	30,200 00	13,700 00	1,589 91	361 90
403 93	196 00	59,721 88	13,865 04	53,500 00	. . . . .	. . . . .	212 88
30,918 58	386 98	204,935 03	45,404 68	202,000 00	. . . . .	1,906 51	1,028 52
3,407 40	244 50	26,604 11	8,521 17	15,800 00	3,300 00	2,436 93	67 18
10,679 03	341 89	37,003 23	7,682 94	29,900 00	6,383 00	. . . . .	720 23
21,253 50	541 92	50,819 35	14,246 20	43,900 00	1,100 00	. . . . .	819 35
174 10	300 75	18,272 59	651 14	17,500 00	. . . . .	17 49	453 10
.	620 92	19,808 59	3,413 09	16,000 00	. . . . .	3,335 62	472 97

Office number.	NAME AND LOCATION OF ASSOCIATION.	Serial or terminating.	Age of association in years.	Date of latest annual report.	Total number of shares.	Number of shares borrowed on.	Cash receipts.	Cash expenditures.	Cash on hand at end of year.
S.	1.	2.	3.	4.	5.	6.	7.	8.	9.
31	Schiller B. & S. A. No. 2, Reading,	T,	11	. . .	709	35 $\frac{1}{2}$	\$50,405 82	\$49,877 49	\$528 33
32	Schuylkill B. & L. A., Reading,	T,	4	1887	2,077	275	42,048 54	41,133 82	914 72
33	Standard B. & L. A., Allegheny,	S,	1	1887	2,083	120	29,295 82	29,285 93	9 89
34	Second Monumental B. L. & S. A., Philadel-phia,	S,	20	1888	1,218 $\frac{1}{2}$	307	44,545 23	39,104 43	5,440 80
35	Second Media L. & S. A., Delaware county,	S,	19	1888	1,939 $\frac{1}{2}$	725 $\frac{1}{2}$	*20,000 00	20,000 00	. . . . .
					43,156 $\frac{1}{2}$	15,184	\$1,140 980 22	\$1,076,394 91	\$64,585 31

Paid withdrawals and matured stock.	Current expenses.	Total assets.	Total gains.	HOW ASSETS ARE INVESTED.			
				Loans.	Real estate.	Cash.	Sundries.
10.	11.	12.	13.	14.	15.	16.	17.
.	\$205 98	\$305 845 68	*\$70,363 33	\$290,141 60	\$5,000 00	\$528 33	\$9,175 73
\$6,339 15	302 00	111,884 98	*11,091 18	110,175 00	. . . . .	914 72	1,795 26
300 00	200 00	25,009 89	1,476 51	25,000 00	. . . . .	9 89	. . . . .
11,427 77	247 00	74,643 72	14,131 70	61,400 00	7,300 00	5,440 80	502 92
5,000 00	697 30	147,040 39	29,114 92	145,175 00	234 65	. . . . .	1,630 74
\$362,743 39	\$11,219 97	\$2,920,141 47	\$591,580 42	\$2,756,571 65	\$62,297 65	\$64,585 31	\$36,686 86

Office number.	NAME AND LOCATION OF ASSOCIATION.	Serial or terminating.	Age of association in years.	Date of latest annual report.	Total number of shares.	Number of shares borrowed on.	Cash receipts.	Cash expenditures.	Cash on hand at end of year.
T.	1.	2.	3.	4.	5.	6.	7.	8.	9.
1	Thirtieth Ward B. & L. A., Philadelphia, . . .	S,	10	1888	773	198	\$23,914 89	\$22,398 19	\$1,516 70
2	Third Hermann B. A., Philadelphia,	S,	9	1888	2,272	1,169	53,168 45	53,996 13	72 32
3	Triumph B. & L. A. No. 2, Philadelphia,	T,	6	1888	598	234	19,332 93	11,993 00	7,449 93
4	Third Phoenix B. & L. A., Philadelphia,	S,	7	1888	711	177	22,855 50	17,866 04	4,989 46
5	Third German Central B. A., Philadelphia, . .	T,	3	1888	1,422	283	26,610 59	26,610 59	. . . . .
6	Thurlow B. A., Philadelphia,	S,	11	1888	664	291	12,297 25	11,782 99	514 26
7	Twenty-ninth Ward B. & L. A., Philadelphia, . .	S,	12	. . .	310	71	43,14 79	35,743 75	7,371 04
8	Thirteenth Ward B. & L. A., Philadelphia,	S,	5	1888	634	100	11,378 77	9,959 42	1,419 35
9	Tradesmen's B. & L. A. No. 2, Philadelphia, . .	S,	18	1888	641	127½	26,286 42	25,596 47	689 95
10	Tradesmen's B. & L. A. No. 3, Philadelphia, . .	S,	18	1888	811	14½	31,856 64	24,404 85	7,451 79
					8,866	2,810	\$270,866 23	\$239,391 43	\$31,474 80

U.									
1	Union B. & L. A., Philadelphia,	S,	19	. . .	469½	147	\$15,910 28	\$8,676 09	\$7,264 19
2	United Workmen's B. & L. A., Philadelphia, . .	S,	12	1888	712½	215	\$32,808 29	\$29,844 11	2,964 18
3	Union Savings and B. A. of West Philadelphia, Philadelphia,	S,	34	1888	2,542½	608½	73,571 70	71,266 18	2,305 52
4	Union Mutual B. & L. A., Philadelphia,	S,	. . .	. . .	266	100	9,190 91	9,190 91	. . . . .
5	Union B., L. & S. A., Mauch Chunk,	T,	3	1887	1,604	329	30,048 09	30,035 22	12 87
6	Union B. & S. A. No. 2, Reading,	T,	5	. . .	758½	88½	20,673 85	20,673 85	. . . . .
7	Union B. & L. Company, Bristol,	S,	10	1887	927	100½	12,582 75	12,532 75	. . . . .
8	Union S. F. & L. A., McKeesport,	S,	7	1888	4,693	1,453	105,703 85	102,031 49	3,672 36
9	Union S. F. & L. A., McKeesport,	S,	2	1888	2,570	337	*20,000 00	18,563 97	1,406 03
					14,513	3,378½	\$320,519 72	\$302,894 57	\$17,625 15

Paid withdrawals and matured stock.	Current expenses.	Total assets.	Total gains.	HOW ASSETS ARE INVESTED.			
				Loans.	Real estate.	Cash.	Sundries.
10.	11.	12.	13.	14.	15.	16.	17.
\$11,799 31	\$178 06	\$13,423 01	\$7,166 51	\$40,400 00	\$800 00	\$1,516 70	\$706 31
14,764 50	379 53	235,598 40	52,535 32	233,800 00	. . . . .	72 31	1,726 08
5,533 00	192 00	52,776 88	11,429 74	45,051 92	. . . . .	7,449 93	275 03
4,067 69	198 35	40,723 55	8,532 75	35,4000 00	. . . . .	4,989 46	334 09
8,602 17	418 10	62,065 24	3,921 72	56,600 00	. . . . .	. . . . .	5,465 24
2,425 99	165 00	59,363 22	16,254 24	53,200 00	. . . . .	514 26	648 96
30,507 25	336 50	23,729 85	5,852 88	14,260 00	862 81	7,371 04	1,236 00
3,723 16	256 26	31,096 17	2,832 40	20,120 00	9,117 50	1,419 35	439 32
7,889 19	507 28	34,303 80	8,588 92	32,954 10	. . . . .	689 95	659 75
2,458 59	646 26	55,715 63	14,579 08	47,580 00	. . . . .	7,451 79	683 84
\$11,710 85	\$3,277 34	\$638,795 75	\$131,696 56	\$584,366 02	\$10,780 31	\$31,474 80	\$12,174 62

\$2,045 54	\$179 80	\$39,776 22	\$9,027 91	\$29,700 00	. . . . .	\$7,264 19	\$2,812 03
22,645 26	217 60	46,636 98	10,171 35	43,060 00	. . . . .	2,964 18	612 80
34,729 71	515 00	160,019 10	30,062 19	145,500 00	\$12,041 38	2,305 52	172 20
7,641 47	246 75	23,647 56	5,080 67	19,771 80	3,800 00	. . . . .	75 76
8,039 71	443 20	69,798 13	11,961 13	65,800 00	3,014 46	12 87	970 80
6,369 82	209 94	58,293 00	12,100 00	21,100 00	36,900 00	. . . . .	296 00
1,861 70	299 30	23,153 97	4,786 93	22,753 19	. . . . .	. . . . .	400 78
51,839 06	2,000 00	300,658 75	60,739 14	290,600 00	3,888 29	3,672 36	2,498 10
3,000 00	*500 00	69,148 57	5,432 62	67,400 00	. . . . .	1,406 03	312 54
\$138,172 27	\$1,611 59	\$791,135 28	\$149,361 94	\$705,634 99	\$59,644 13	\$17,625 15	\$8,181 01

Office number.	NAME AND LOCATION OF ASSOCIATION.	Serial or terminating.	Age of association in years,	Date of latest annual report.	Total number of shares.	Number of shares borrowed on.	Cash receipts.	Cash expenditures.	Cash on hand at end of year.
W	1.	2.	3.	4.	5.	6.	7.	8.	9.
1	Wharton B. & L. A., Philadelphia,	S,	3	1887	484	52½	\$8,579 91	\$8,110 81	\$169 10
2	Wage Workers' B. & L. A., Philadelphia, . . .	S,	1	. . .	434	22	5,103 54	5,103 54	. . . . .
3	Washington B. A., Philadelphia,	T,	10	1887	149	149	5,993 03	5,840 85	152 20
4	Willimantic B. & L. A., Philadelphia,	S,	11	1888	1,382	424½	44,176 99	42,891 89	1,285 10
5	Wissahickon B. A., Philadelphia,	S,	14	1898	2,456	698	55,850 56	45,817 30	10,033 26
6	W. C. Jackson B. & L. A., Philadelphia,	S,	10	1888	257	114	12,522 40	8,265 52	4,256 88
7	West End L. & B. A., Philadelphia,	S,	18	. . .	920	38½	25,139 03	24,025 09	1,113 94
8	Wyoming L. & B. A., Philadelphia,	S,	15	1888	1,494	241	29,973 90	23,425 77	6,548 13
9	West Philadelphia No. 2, B. A., Philadelphia,	S,	16	1888	1,12½	251½	24,072 37	24,012 37	. . . . .
10	West Chester B. & L. A., West Chester, . . .	S,	18	1888	1,684	393	31,806 02	31,494 87	311 15
11	Washington L. & B. A., Altoona,	T,	8	1887	1,238½	922	39,071 91	38,846 42	225 49
12	West Branch B. & L. A., Williamsport, . . .	S,	2	1888	337	72	11,207 16	11,192 47	14 69
13	West Penn B. & S. A., Reading,	T,	4	. . .	1,18½	16½	30,833 34	30,601 49	231 85
14	Washington B. & S. A. No. 2, Reading, . . .	T,	6	1886	944	234	22,169 75	22,169 75	. . . . .
15	West Reading S. F. & L. A. No. 2, Reading, . . .	T,	6	1887	916	152½	20,940 19	17,988 38	2,951 81
16	West Ward B. & L. A., Easton,	S,	15	1888	1,991	340	36,197 66	36,171 53	26 13
					16,99½	4,617½	\$103,637 78	\$376,018 05	\$27,619 73

V.									
1	Vineyard S. L. & B. A., Reading,	S,	9	1886	865	316	\$25,741 02	\$13,802 41	\$1,938 61
2	Van Pelt B. & L. A., Reading,	S,	1	1888	721	36½	10,273 40	10,269 12	4 28
3	Vine B. A., Reading, . .	S,	1	1888	825	43	10,003 42	8,000 14	2,003 28
4	Verona B. & L. A., Verona, . . . . .	. . .	1	1888	1,139	98½	21,781 57	21,427 52	354 55
					3,550	494	\$67,799 41	\$63,498 69	\$4,300 72

Paid withdrawals end matured stock.	Current expenses.	Total assets.	Total gains.	HOW ASSETS ARE INVESTED.			
				Loans.	Real estate.	Cash.	Sundries.
10.	11.	12.	13.	14.	15.	16.	17.
\$4,082 85	\$298 25	\$11,653 85	\$375 83	\$10,700 00	. . . . .	\$469 10	\$484 75
370 00	41 65	4,907 79	127 44	4,426 86	. . . . .	. . . . .	480 93
469 53	171 32	29,968 20	12,049 63	29,800 00	. . . . .	152 20	16 00
20,374 56	389 10	92,389 92	18,639 65	90,493 75	. . . . .	1,285 10	611 07
27,896 55	394 25	150,146 32	27,383 81	139,600 00	. . . . .	10,033 26	513 06
2,104 52	233 00	33,311 31	9,706 93	28,600 00	. . . . .	4,256 83	454 43
10,793 06	188 90	69,901 25	5,546 84	64,500 00	\$2,500 00	1,113 94	1,787 31
6,808 63	440 55	55,503 81	7,806 91	48,275 00	. . . . .	6,548 13	683 63
10,760 85	578 93	64,226 45	9,895 43	53,666 67	10,000 00	. . . . .	559 78
9,711 13	368 56	92,641 84	16,271 29	78,600 00	13,044 27	311 15	686 42
7,195 23	484 30	189,661 32	64,563 50	134,400 00	2,836 46	225 49	2,199 37
600 00	264 03	15,697 43	1,170 62	15,420 00	. . . . .	14 69	262 74
7,270 18	208 94	69,893 44	10,834 42	42,793 00	26,500 00	231 85	373 59
13,961 38	214 00	97,409 00	28,895 84	63,734 50	31,800 00	. . . . .	1,874 50
3,114 83	171 90	85,524 85	19,565 76	72,185 42	9,799 12	2,951 81	538 50
4,473 00	443 25	70,505 66	9,071 76	67,867 00	2,250 00	26 13	362 53
\$129,936 30	\$4,890 98	\$1,133,350 44	\$241,905 66	\$995,062 20	\$98,729 85	\$27,619 73	\$11,933 66

\$5,401 81	\$144 77	\$66,165 00	\$14,201 92	\$63,200 00	. . . . .	\$1,938 61	\$1,026 39
65 00	122 30	7,438 30	21 63	7,300 00	. . . . .	4 28	134 53
.	280 64	10,765 30	825 00	8,600 00	. . . . .	2,003 28	162 02
625 28	453 64	20,110 68	618 08	19,700 00	. . . . .	354 55	56 13
\$6,092 09	\$1,003 35	\$101,479 78	\$15,666 63	\$98,800 00	. . . . .	\$4,300 72	\$1,379 06

New Jersey.

James Bishop, Chief of the Bureau of Statistics of Labor and Industries of New Jersey, in his late report gives some valuable information concerning the buildings associations of New Jersey. Mr. Bishop says:

“In 1880, when the Bureau first endeavored to collect information from the building and loan associations in this State, there were reported to be in existence 106 of these societies, but less than one-third favored us with returns. These aggregated in net assets \$4,092,647, and about 47,000 shares, or an average of \$78,483 assets and 921 shares to the association. Previous to the year mentioned no such statistics had been available, and, except in the immediate location where they flourished, no one had any idea of the extent or condition of New Jersey cöoperative building enterprises, something which had much to do with intercepting their development. Our publication, incomplete as it was, met with much favor and attracted considerable attention throughout the State to this form of cöoperation. And when two years later, in 1882, we again investigated the subject 118 secretaries without exception cheerfully sent in replies. According to our estimate, there were during that year 128 New Jersey building and loan associations, of which twelve “terminating” ones were reported to be closing up—that is, their shares had matured. The aggregate returns from the 118 organizations, of which the majority were serial or perpetual, gave 102,075 shares owned by 20,000 members, of whom fully 6,000 were borrowers. The assets amounted to \$6,748.775.00. The averages were, therefore, 864 shares, 170 shareholders and \$57,192.00 of assets—an apparent decrease, easily accounted for by the fact that very many small societies, not reporting in 1880, made returns. In 1885 there were said to be in existence 129 associations, a number of which had been organized since the statements for 1882 appeared, while several of the terminating societies running at that time had been “wound up.”

Complete returns were received from 121, whose net assets amounted to \$6,956,351, or an average of \$57.490. The capital was divided into 133,300 shares, distributed among 25,000 individuals; or an average of 1,100 shares and 205 shareholders to an association. It was estimated the net assets of all the New Jersey associations in 1884 amounted to \$7,000,000 and that our wage workers who had secured homes at least 4,000 were engaged in paying off mortgages with assistance obtained as shareholders.

On October 1st, 1886, a circular was sent to the various associations, asking for the information set forth in elaborate tables printed in the report, which gives statistical details of 156 organizations in active operation at that date. From the returns which have been forwarded * * * * these associations are generally in a

very prosperous condition, and a great benefit not only to the individual members, but to the community at large, for they are increasing the number of taxpaying property-owning citizens and making it comparatively easy for an industrious workingman to own a home."

A summary of the statistics of the 156 New Jersey associations shows the following results: 37,730 shareholders, holding 204,653 shares, 5½ to each shareholders. The net assets foot up \$9,349,517.46, or nearly \$60,000 to an association. Of the members, nearly two-thirds (or 26,123) are wage earners, and 8,562 (or over one-fifth) are borrowers. Of the latter, 5,354 (or over sixty per cent.) are workingmen. Over one-fifth of the shares (or 42,373) have been borrowed on; the profits of 142 associations (net assets \$8,915,120) were \$1,706,649 or an average of \$12,018 for \$50,764 paid in as dues, supposed to be about 9¼ per cent. per annum. The incidental expenses have averaged, for 110 associations, \$353 annually.

Maine.

While there are many individual building associations in Pennsylvania, with assets exceeding the combined capital of the building associations of Maine, yet the figures, submitted by the bank examiner, Hon. Fred. E. Richards, of the loan societies of that State are of the most interesting character.

Below is given a statement of the aggregate standing and condition of the loan associations of Maine November 1, 1888:

LIABILITIES.	
Accumulated capital,	\$150,023 95
Advanced payments,	17,913 07
Guaranty fund,	137 45
Profits,	16,339 27
Other liabilities,	3,554 03
	<hr/>
	\$187,967 77
	<hr/>
RESOURCES.	
Loans on mortgages,	\$176,897 00
Loans on shares,	775 00
Permanent expense account,	2,036 90
Current expense account,	2,347 57
Cash,	5,911 30
	<hr/>
	\$187,967 77
	<hr/>
Number of shareholders,	2,129
Number of shareholders borrowers,	287
Number of shareholders non-borrowers,	1,842
Number of shares,	9,608
Shares pledged for loans,	995
Number of loans,	319
Amount of loans,	\$177,672 00
	<hr/>

The approximate increase since since November 1st has been \$92,556.58 as to capital stock, and 972 as to shareholders. The average loan to each borrower is \$619.07.

The examiner says: "The key to the almost uniform success of loan and building associations is to be found in the intimate relations which they hold to shareholders, and especially to borrowers. Not only do they make it possible for persons having but small incomes to build homes for themselves, by loaning money on unfinished property as the money is needed to advance the work, repayable in small payments, but they exercise a scrupulous supervision over the interests of the borrower. The condition and situation of his property, the plans of the architect, the estimates, the character of the contractor, the building material, the work of the builder—all are carefully inspected by competent judges and subject to their approval. The loan and building association thus forms a supervisory board, whose assistance to the borrower is invaluable.

"The provision, uniformly and impartially enforced, that dues, interest and premiums shall be paid monthly, also contributes in great measure to their success. In practice this frequency and regularity insure prompt payments from many who would otherwise fall behind and soon neglect payments altogether. The educational character of these institutions is far from being one of their least important features. Then, too, these associations have in view but a single object, which they are peculiarly adapted to promote. By the stimulus of this single purpose, by the enthusiasm which it communicates, by the fraternity of feeling in which it unites the members of the association, there is created a powerful *esprit de corps* (the animating spirit of a collective body). Members feel themselves to be important factors in the institution—at once lenders and borrowers and sole managers—they *are* the institution; and, inspired by such impulses, they labor for the success and propagation of their enterprise with extraordinary zeal."

Ohio.

In reference to Ohio, Mr. Sanborn says: The whole number of these associations in Ohio can only be guessed at. There are about 400 building associations in Hamilton county, and in Dayton, Toledo and many smaller cities these societies exist. It is supposed that there are at least 600 building societies in the State, with assets of at least \$60,000,000 to \$70,000,000.

New York.

New York perhaps has 300 building associations, 150 of which belong to the two cities of Rochester and Buffalo. One society at Elmira has 400 member and \$175,000 assets. The Erie, of Buffalo, takes in from members about \$40,000 a year. A rough estimate of the assets of the New York associations would be \$20,000,000.

Iowa.

It is said that 100 of these associations exist in Iowa, with assets of \$8,000,000.

California.

California has perhaps twenty building associations with assets of about \$3,000,000. Eleven of the California societies reported last year 30,000 shares with assets of \$2,600,000. These societies exist in all the other Pacific States.

Delaware.

There are about 25 building associations in the State of Delaware, with assets perhaps amounting to \$3,000,000. The Workingmen's, of Wilmington, has assets of \$90,217.88, and the National Loan has assets of \$210,254.60.

District of Columbia.

There are a number of these associations in the District of Columbia, with assets aggregating perhaps \$6,000,000. The Equitable, of Washington, is one of the largest associations in the United States, having assets of \$971,530.64. Advances were made to the members during the past year amounting to \$585,900. It has 12,354 shares of stock in its different issues. This society is nine years old, and has advanced to its members a total of \$2,538,600, of which \$1,684,973.72 has been settled. It receives on an average \$32,000 per month from members.

Michigan.

"The law of 1877," says Mr. Sanborn, "under which perhaps 15 or 20 building associations now exist, was far less favorable to their formation than the laws of Pennsylvania, Ohio and finally of Illinois. This state of things was changed in 1887, by the passage of a law more satisfactory to the association members than the old law had been. Under this new law about 40 new associations have already been organized, so that the whole number in the State may be about 50." One society has an authorized capital of \$5,000,000, but the average authorized capital is about \$2,400,000. The aggregate of assets may be \$600,000 to \$700,000.

Illinois.

Mr. F. B. Sanborn, in a report read before the Social Science Association at Saratoga, in September, 1888, referred to building associations in Illinois as follows: There are nearly 300 of these associations in Chicago alone, and exceed 450 in the State. Chicago associations average 589 shareholders, of whom 164 are women. The loans to members in twenty-four Chicago associations average in a year \$210,690. The average loan to a member is \$1,329, and in the rest of Illinois, \$710. The whole number of loans in twenty-four associations is \$5,056,578 of Chicago, and in fifty-three outside, \$3,286,092. It is probable that the most prosperous associations made reports, so that the average loans to the amount of \$108,350 in each association is doubtless too high for the 450 in Illinois. But if we call the average only \$80,000, this would give Illinois an aggregate of \$36,000,000 as

the yearly amount lent to shareholders by these associations." The assets probably aggregate \$50,000,000.

Minnesota.

Albert Shaw, Esq., of Minneapolis, writes, in the "History of Coöperation in the United States," as follows: "Several of the most flourishing building and loan associations to be found anywhere in the country are established in the neighboring cities of Minneapolis and St. Paul, and they have been the means of providing many hundreds of workingmen's families with pleasant homes of their own. In the whole State there are about 120 associations, and nearly or quite fifty of these are at St. Paul. Probably Minneapolis has twenty by this time." Mr. Sanborn, referring to the Minnesota societies, says: "From 8,000 to 10,000 homes in St. Paul have been secured to their occupants by this new system of borrowing and guaranteeing. Whatever the figures of invested capital may be, they are changing so fast, from one day to another, that they give little real indication of the present state of things; still less of the accumulations that have really been made under this method of saving. The number of associations reported in St. Paul a few months ago was forty-five, with an average of 3,000 shares in each one, and an average value of \$50 a share. Assuming that this is true of the 120 in the whole State, this would give an investment of \$18,000,000 for the Minnesota associations."

Massachusetts.

The whole number of building societies, or "coöperative banks" as they are named in Massachusetts, is 66, and the gain increases each year, 15 banks having been started in the past twelve months. Their assets are between \$5,000,000 and \$6,000,000. Many of these banks have been organized with the assistance of Mr. Daniel Eldredge, who is secretary of the Pioneer, Homestead and Guardian, all of Boston. The Pioneer started in April, 1878, with assets of \$15,038 and at the end of its fiscal year, 1888, showed assets of \$250,000. The Homestead in September, 1878, had assets of \$7,342, and in September, 1888, \$257,783. These two banks have so far received from members \$1,700,000. "The members realize that they have a great interest in the State, that they are more important parts of the body politic. They feel more deeply the necessity of good government, of economy in public expenditures, of the maintenance of law and order. The coöperative banks of Massachusetts are rapidly enlarging the number of its citizens who are under the influence of these motives adding to their happiness and to the security of the State, and for this they are entitled to the grateful regard and fostering care of the Commonwealth and all its people."

Missouri.

There are at least 200 building associations in the State of Mis-

souri. We have examined the reports of thirty of these associations and they show assets amounting to \$2,340,000, or \$78,000 for each society on an average. For the 200 associations on the above basis the total resources would amount to \$15,600,000. St. Louis has about 50 of these associations and the balance are scattered through the State.

Other States.

These building associations exist in all the States and Territories of the United States. Oregon has quite a number. Kansas is said to have 100 and Wisconsin 50 to 75.

The United States.

From the reports of 4,000 building associations in the United States the following figures are presented :

Shares,	\$5,450,000 00
Members,	872,000 00
Borrowers,	272,000 00
Borrowed shares,	1,496,000 00
Assets,	336,485,080 00
Receipts, one year,	139,323,934 00
Disbursements,	131,629,930 20
Cash on hand,	7,705,755 72
Withdrawals and matured shares,	41,055,989 64
Expenses,	1,375,960 00
Gains,	70,512,200 00

A SINGLE SERIES ASSOCIATION.

THE FINANCIAL CONDITION OF THE CARROLL BUILDING ASSOCIATION, No. 6,
INCLUDING THE 143D PAYMENT, MADE JUNE 27TH, 1888.

Receipts.

Ten months dues, interest and fines collected,	\$10,103 80
Rents collected,	601 68
Sale of real estate,	14,596 28
Insurance policies canceled,	213 20
Interest on city 4's and 6's,	534 00
" C. and C. Midland bonds,	150 00
" Sea Isle City bonds,	125 00
" Woodruff Parlor Car Trust,	75 00
" First mortgage (Kiniry),	60 00
Withdrawn from Drexel & Co.,	10,013 89
Balance of special loan and interest (Cadwalader),	790 00
Loan on collateral and interest (Jenkins),	1,530 37
Balance in Treasury last year,	6,537 38
	<u>\$45,330 60</u>

Disbursements.

Stock loans,	\$3,650 00
Loaned to D. O'Connell, B. A.,	6,500 00
Loan on collateral (Cheney),	2,500 00
Mortgage on Catharine street houses and interest,	4,443 71
Deposited with Drexel & Co.,	10,000 00

Call loan,	\$10,000 00
Salary and room rent,	89 20
Rent of box in Guarantee,	4 50
Printing, etc.,	8 25
Repairs to real estate,	37 00
Trial sales at "Freemans,"	27 00
Advance rent returned,	28 04
Balance in treasury,	8,042 90
	<u>\$45,330 60</u>

Assets.

Bonds and mortgages,	\$69,450 00
City 4 per cent. loan,	26,100 00
City 6 per cent. loan,	400 00
C. and C. Midland bonds,	5,000 00
Sea Isle City bonds,	5,000 00
First mortgage (Kiniry),	1,000 00
Woodruff Parlor Car Trust,	1,000 00
Loan on collateral (Cheney),	2,500 00
Call loan,	10,000 00
Loans on demand (O'Connell),	6,500 00
Unpaid dues, interest and fines,	274 90
Balance in treasury,	8,042 90
	<u>\$135,267 80</u>

Liabilities.

Due stockholders,	\$134,828 16
" Chas. S. Green,	340 64
" D. Taggart,	84 00
" Annie Burns,	15 00
	<u>\$135,267 80</u>

Remarks.

Making each share worth,	\$200 63
Paid on each share,	143 00
Profit on each share,	57 63
Profit on each share this year,	7 66
Number of shares last year,	672
Number of shares loaned on,	347½
Shares not loaned on,	324½
Present number of shares,	672
Net profits from organization to date,	\$38,732 16

The above is the final financial statement of a one series association. At this writing this society is paying a dividend of \$2 00 on each share of stock. The final value was \$200 per share, but the members get in reality \$202.63 for each share.

672 shares have paid in \$143 each,	\$96,096 00
672 shares have gained,	40,071 36

Total,	<u>\$136,167 36</u>
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The mortgages were satisfied of record and the free shares received cash in settlement.

GROUND RENTS IN PENNSYLVANIA.

Perhaps two-thirds of the small houses offered as security for loans asked from building associations are subject to "ground rents." The Building Association League of Pennsylvania some time ago received from its attorneys the following explanation of the system:

In answering this question it is not essential to consider historically the origin of a ground rent. Such an extended examination of its meaning would involve much time and touch upon some of the most delicate and obstruse questions of law.

This peculiar estate can be best understood by defining it and some of its leading characteristics in language equally familiar to the professional and lay mind. It may be remarked that it is an estate existing in but few of the United States.

A ground rent in Pennsylvania is a rent reserved by a man to himself, his heirs and assigns out of lands that he has conveyed to another in fee, that is absolutely.

The land is conveyed in the usual way by deed, which is, however, executed by the purchaser as well as by the seller, the purchaser therein covenanting for himself, his heirs and assigns to pay to his grantor or his heirs and assigns the certain rent therein mentioned. For instance, if a man wished to purchase a piece of ground for \$2,000 and had but \$1,000 and the owner of the land was willing that the \$1,000 should remain a charge upon the land, the deed of conveyance would express the reservation of a ground rent of \$60 per annum, usually payable at certain dates, half yearly. This, it will be observed, would be interest at the rate of six per cent. per annum on the principal sum of \$1,000. A ground rent can be sold at any time by the owner of it, such sale being called an assignment.

A ground rent is real estate, and is a separate and distinct estate in every particular, from the estate which the land owner possesses. In the deed reserving the ground rent there is usually a clause giving the right to distrain for rent in arrears. This right is practically the same as that which a landlord can exercise over his tenant.

The owner of the ground rent can also recover his rent, if not paid by bringing suit on the ground rent, the form of proceeding being specially provided by statute, and upon obtaining judgment he can sell the property, subject to the principal sum of his ground rent for the amount of rent due. Such a sale does not discharge the principal of the ground rent; it still remains fastened to the property.

It will probably assist the building society member to comprehend a few of the distinctive features of a ground rent by comparing it in some particulars with a mortgage. A mortgage is personal estate. In a suit upon a mortgage, the sale discharges the ground of its lien. There is no clause of distress in a mortgage. A mortgage, too, is al-

ways made for a certain period of time ; when that has expired, the principal sum can be paid and the estate is relieved of its burden.

A ground rent, on the contrary, is real estate of a peculiar character. In a suit upon a ground rent, upon sale of the property upon which it is placed, the principal of the ground rent, as before mentioned, is not discharged, only the arrears of interest are recovered, the right of distress is secured by a special clause.

Prior to a statute enacted April 22, 1850, irredeemable ground rents could have been and often were created. That is, the land owner, as he is called here, could never pay off the principal of the ground rent without the permission of the holder of such ground rent. Many such ground rents are still in existence. Since the date of the statute referred to, ground rents are reserved for a certain number of years, after which time they can be paid off and extinguished.

Ground rents are usually reserved out of unimproved property, it often being agreed that houses should, within a certain time, be built thereon. They are not as generally created now as formerly. They lack, on account of certain qualities that have been outlined, the negotiable and flexible characteristics common to mortgage. A ground rent is too conservative an estate for an age and generation which insists upon easy convertibility being a condition attached to every species of property.

Still it may be assumed that this class of estate and security has been too long a favorite with a certain portion of the community to lose its hold upon the fancy or good judgment of investors and its connection with real estate law."

PERMANENT OR SERIAL ASSOCIATIONS.

A permanent association is formed on the same principle as one that issues only one series of shares, the difference being only in the issue of shares at different periods during the continuance of the society. Each series dates back only to the period at which it was issued ; so that while all shares of a terminating society are at all times equal to each other, the shares of each particular series only are equal under the permanent plan. Each issue runs its course (as to value) independently, without interfering with the others issued before or after it.

Under this plan the members agree to wind up the series when their value is shown to be \$200, leaving the other series, or members, in the association, who, by reason of a later entrance, have not reached the point of departure. These also, in turn, retire when their capital reaches its fixed value, leaving still others to follow in time. This constitutes the permanent feature of the plan. The following diagram, arranged on a life basis of eleven years for a series, will show how the series may be admitted to membership :

Series.	Year of Admittance.										
	1	2	3	4	5	6	7	8	9	10	11
1	o	o	o	o	o	o	o	o	o	o	o
2		o	o	o	o	o	o	o	o	o	o
3			o	o	o	o	o	o	o	o	o
4				o	o	o	o	o	o	o	o
5					o	o	o	o	o	o	o
6						o	o	o	o	o	o
7							o	o	o	o	o
8								o	o	o	o
9									o	o	o
10										o	o
11											o

The first series it will be seen goes in the first year and runs out at the end of the eleventh year, and so on down to the eleventh series which enters at the beginning of the eleventh year and runs out at the end of the twenty-first year of the life of the association. The diagram might be extended to represent an indefinite number of years.

A permanent serial association might be classed as a combination of single series associations. Instead of starting a new society every year it may be decided to form a company and join issues with an existing society, and these new companies be designated as series. Figures to represent a series association may be taken from the example society which is elsewhere stated in detail. When one company or series is one year old, the others are respectively two, three, four, five, six, seven, eight, nine and ten, and possibly eleven years old. Take ten single issue societies aged respectively ten, nine, eight, seven, six, five, four, three, two and one year and join them together as follows: (The figures used below are all from tha annual reports of the example society.)

SERIES.	Shares.	Cash on hand.	Value of shares.	Gains.
1. End of 10th year,	1,000	\$374 00	\$187,676 00	\$67,676 00
2. End of 9th year,	1,000	975 00	161,088 00	53,088 00
3. End of 8th year,	1,000	711 00	136,656 00	40,656 00
4. End of 7th year,	1,000	393 00	114,184 00	30,184 00
5. End of 6th year,	1,000	860 00	93,504 00	21,504 00
6. End of 5th year,	1,000	972 00	74,483 00	14,183 00
7. End of 4th year,	1,000	603 00	56,995 00	8,995 00
8. End of 3d year,	1,000	627 00	40,907 00	4,907 00
9. End of 2d year,	1,000	932 00	26,007 00	2,007 00
10. End of 1st year,	1,000	462 00	12,546 00	546 00
	10,000	\$6,909 00	\$904,046 00	\$214,046 00

Now here is a series association with ten sets of shares and the time is the end of the tenth year. The state of the books shows :

Total number of shares,	10,000
Cash on hand,	\$6,907 00
Value of all shares,	<u>\$904,046 00</u>
Paid in 1,000 shares, \$12 each,	\$12,000 00
Paid in 1,000 shares, \$24 each,	24,000 00
Paid in 1,000 shares, \$36 each,	36,000 00
Paid in 1,000 shares, \$48 each,	48,000 00
Paid in 1,000 shares, \$60 each,	60,000 00
Paid in 1,000 shares, \$72 each,	72,000 00
Paid in 1,000 shares, \$84 each,	84,000 00
Paid in 1,000 shares, \$96 each,	96,000 00
Paid in 1,000 shares, \$108 each,	108,000 00
Paid in 1,000 shares, \$120 each,	120,000 00
Total paid in,	<u>660,000 00</u>
Total gain,	<u>\$244,046 00</u>

The money is all thrown together and the assets also, but of course an account on the roll book is kept with each individual member of each series. The interests of the different sets of members is cared for by dividing the gains of the business so that each dollar invested as dues receives a like rate of gain per annum for the time the money of each individual member is invested.

A PREMIUM DEDUCTING ASSOCIATION.

Twelfth Annual Statement of the City of Homes Building and Loan Association, Philadelphia, February 6th, 1888.

The society handled the past year \$72,810.56. The withdrawals and matured shares aggregating \$41,098.95, have been paid promptly, without requiring the member to wait the lawful time of thirty days. For several years the funds of the association have sold at par, *i. e.*, without receiving a premium for the money, and while the borrower pays six per cent. interest, the net gain is equal to 7.15 per cent. per annum. This result is brought about by promptness in lending the monthly receipts. The current expenses for the year were only \$552.20. The increase in the value of shares is shown below :

<i>Series.</i>	<i>Value last report,</i>	<i>Increase this year dues and reports.</i>
2	\$163 19	\$21 06
3	142 98	20 21
4	123 64	19 32
5	105 16	18 48
6	87 55	17 61
7	70 79	16 76
8	54 91	15 88
9	39 89	15 02
10	15 73	14 16
11	12 43 ¹⁹ / ₁₀₀	13 29 ⁸¹ / ₁₀₀
12	. . .	43 ¹⁹ / ₁₀₀

The stockholders must not be led into the belief that their presence is unnecessary at the monthly meetings, that the affairs of the association will get along well enough without them. It is their duty to be present; likewise it is their duty, as well as interest, to direct would-be borrowers to the association, thus insuring the prompt disposal of the monthly income.

CONDENSED STATEMENT.

	Cash.	Dr.	Cr.
Receipts,		\$72,810 56	
Expenditures,			\$66,962 81
Balance,			5,847 75
		<u>\$72,810 56</u>	<u>\$72,810 56</u>
Assets.			
Bonds and Mortgages,			\$107,700 00
Real Estate,			7,950 00
Sundries,			597 50
Cash,			5,847 75
			<u>\$122,095 25</u>
Credits.			
Paid in,			\$102,737 62
Gain,			19,049 05
Surplus,			308 58
			<u>\$122,095 25</u>

SERIES.	Required payments.	Gains.	Total value.
2,	\$132 00	\$52 25	\$184 25
3,	120 00	43 19	163 19
4,	108 00	34 98	142 98
5,	96 00	27 64	123 64
6,	84 00	21 16	105 16
7,	72 00	15 55	87 55
8,	60 00	10 79	70 79
9,	48 00	6 91	54 91
10,	36 00	3 89	39 89
11,	24 00	1 73	25 73
12,	12 00	43 ¹⁹ ₁₀₀	12 43 ¹⁹ ₁₀₀

Gains This Year.

2d, \$9.06 ; 3rd, \$8.21 ; 4th, \$7.32 ; 5th, \$6.48 ; 6th, \$5.61 ; 7th, \$4.76 ; 8th, \$3.88 ; 9th, \$3.02 ; 10th, \$2.16 ; 11th, \$1.30 ; 12th, 43¹⁹₁₀₀.

Report.

PHILADELPHIA, February 6, 1888.

Cash Receipts.		
Balance on hand last report,		\$10,575 06
From dues, interest, fines and initiations,		43,840 03
From rents, less taxes, etc.,		484 02
From interest, mortgage A,		394 19
“ “ “ B,		36 00

Repaid Loans.

From A. Burk,	5 shares,	1st series,		\$1,000 00
“ Wm. Agnew,	1 “	1st “		200 00
“ Jas. Young,	16 “	3d “		3,200 00
“ W. H. Stevens,	8 “	5th “		1,590 84
“ Thos. Davey,	4 “	5th “		795 42
“ F. Merrihew,	20 “	6th “		4,000 00
“ E. Hatch,	4 “	6th “		795 00
“ J. Smethurst,	15 “	8th “		3,000 00
“ C. F. Krouse,	3 “	9th “		600 00
“ L. Moxey,	9 “	10th “		1,800 00
“ W. E. Todd,	1 “	10th “		200 00
“ C. H. Heaton,	1 “	11th “		200 00
“ F. B. Price,	$\frac{1}{2}$ “	11th “		100 00
				<hr/>
				<hr/>
				\$72,810 56

Cash Expenditures.

For 113 withdrawn and matured shares, 1st series,		\$21,755 77
“ 7 “ shares, 2d series,		1,206 70
“ 16 “ “ 3d “		1,245 22
“ 5 “ “ 4th “		647 50
“ 22 “ “ 5th “		2,284 82
“ 37 “ “ 6th “		3,321 09
“ 7 “ “ 7th “		555 00
“ 42 “ “ 8th “		1,974 25
“ 42 “ “ 9th “		1,729 13
“ 64 “ “ 10th “		1,955 53
“ 136 “ “ 11th “		2,294 89
“ 167 “ “ 12th “		1,129 00
13 “ “ cancelled, 7th series, by obtaining property.		
2 shares, forfeited, 12th series.		

673

For ground rent, 1725 Wharton street,		78 66
“ “ “ 1749 North Eleventh street,		84 06
“ “ “ William street,		30 00
“ Sheriff’s costs, repairs, etc., William street,		600 30
“ Interest on advances,		18 70
“ loans—		
1 $\frac{1}{4}$ shares, 2nd series,	\$250 00	
1 $\frac{1}{2}$ “ 9th “	360 00	
5 $\frac{1}{2}$ “ 10th “	1,100 00	
53 $\frac{1}{4}$ “ 11th “	10,650 00	
61 “ 12th “	12,200 00	
		<hr/>
		24,500 00
For current expenses, salary of secretary,	\$420 00	
Rent,	48 00	
Advertising and printing,	84 20	
		<hr/>
		552 20
Balance on hand,		5,847 75
		<hr/>
		<hr/>
		\$72,810 56

Assets.

Mortgage A,	\$600 00
“ B,	4,600 00
Washington bond (nominal).	

REAL ESTATE.			
No. 914 Percy street,	\$1,500 00		
No. 1725 Wharton street,	\$1,800 00		
Less ground rent,	1,300 00		
		500 00	
No. 1749 N. Eleventh street,	3,500 00		
Less ground rent,	1,400 00		
		2,100 00	
No. 624 Beach street,	1,466 66		
Less ground rent,	666 66		
		800 00	
No. — William street and rear,	4,050 00		
Less ground rent,	1,000 00		
		3,050 00	
			\$7,950 00
Accrued interest on loans, — shares,			512 50
Fire proof safe,			85 00
Loans secured by stock last report,	\$2,500 00		
Stock loans taken this year,	2,300 00		
	\$4,800 00		
Reduction this year,	500 00		
		4,300 00	
Bonds and mortgages, last report,	\$95,600 00		
Bonds and mortgages, this year,	22,200 00		
		117,800 00	
Reduction this year,	\$17,000 00		
*	2,600 00	19,600 00	
			98,200 00
Cash in treasury,			5,847 75
*Property obtained,			\$122,095 25

LIABILITIES AND CREDITS.			
Credits.			
Free shares, 2d series,	109 $\frac{1}{4}$	\$14,418 93	
Borrowed shares, 2d series,	9 $\frac{3}{4}$	1,262 28	
	119		
Free shares, 3d series,	33	3,957 00	
Borrowed shares, 2d series,			
	33		
Free shares, 4th series,	6	648 00	
Borrowed shares, 4th series,			
	6		
Free shares, 5th series,	18	1,728 00	
Borrowed shares, 5th series,			
	18		
Free shares, 6th series,	24	2,019 00	
Borrowed shares, 6th series,	20	1,760 00	
	44		
Free shares, 7th series,	174	12,891 14	
Borrowed shares, 7th series,	68 $\frac{1}{2}$	4,635 74	
	242 $\frac{1}{2}$		
Free shares, 8th series,	74	4,456 70	
Borrowed shares, 8th series,	25	1,425 70	
	99		
Free shares, 9th series,	267	12,872 04	
Borrowed shares, 9th series,	43	1,812 43	
	310		

Free shares, 10th series,	182½	\$6,562 86
Borrowed shares, 10th series,	95	3,385 32
	— 277½	
Free shares, 11th series,	563¾	13,472 24
Borrowed shares, 11th series,	190¼	4,547 14
	— 754	
Free shares, 12th series,	871	10,310 14
Borrowed shares, 12th series,	61	662 91
	— 932	
Total gains,		19,357 63
		<u>\$122,095 25</u>

SHARES.

SERIES.	Last report.	Withdrawn.	Remaining.
1,	113	113	119
2,	126	7	33
3,	49	16	6
4,	11	5	18
5,	40	22	44
6,	81	37	242½
7,	262½	20*	99
8,	141	42	310
9,	352	42	277½
10,	341½	64	754
11,	850	136	
	2,367		
11 issued,	40		
12 issued,	1,101	169†	932
	3,508	673	2,835

*13 shares canceled by obtaining property.
† 2 shares forfeited.

Total number of shares last report, 2,367
Issued this year, 1101 and 40, 1,141
3,508
Withdrawn and cancelled, 673
Remaining, 2,835

TOTAL VALUE OF SHARES (IF FULL PAID).

SERIES.	Shares.	Full value.	Totals.
2,	119	\$184 25	\$21,925 75
3,	33	163 19	5,385 27
4,	6	142 98	857 88
5,	18	123 64	2,225 52
6,	44	105 16	4,627 04
7,	242½	87 55	21,230 87
8,	99	70 79	7,008 21
9,	310	54 91	17,022 10
10,	277½	39 89	11,069 47
11,	754	25 73	19,400 42
12,	932	12 43 19/100	11,586 52
	2,835		\$122,339 05

Underpaid,	\$1,189 05	
Overpaid,	636 67	
		<hr/>
		\$552 38
		<hr/>
		\$121,786 67
Surplus,		308 58
		<hr/>
Net assets,		\$122,095 25
	JOHN A. DEAN, GEO. ENGLE, <i>Auditors.</i>	

Then follows a statement of the secretary, giving the account of each individual stockholder, designated by numbers corresponding with each pass book. These accounts show book numbers, number of shares, required investment, net investment or credit, unpaid and overpaid. These accounts take up eighteen pages, and the report is printed in book form. After which follows an

Illustration of the Business.

Each share is required to invest \$1.00 per month. The non-borrower can, of course, cease paying at any time and withdraw his investments and cancel his shares; but the borrower is compelled to continue his investments, and pay interest besides, or repay his loan. When he repays his loan he still has his investment in the society as his own property. The only connections investments have with loans is that the investments, including an equal share of the profits which the borrower is entitled to, will in some future time amount, in the aggregate, to as much as the loans, and that the investments are also held as collateral security.

The assets show the face value of mortgages held by the society. If the loans for which they are held as security were to be repaid to-day, a portion of the premium paid on each would be returnable to the borrower, under the act of Assembly and the by-laws of the association. The amounts so returnable are liabilities, and are treated as such.

To illustrate the business of a building association, we will assume that the members desire to close the business at this date. The secretary's first duty would be to prepare a statement of the borrowers' accounts, showing the amounts required of them to repay their loans as follows :

Loans, 9 $\frac{3}{4}$ shares, 2d series,	\$1,950 00
Loans, 20 shares, 6th series,	4,000 00
Loans, 68 $\frac{1}{2}$ shares, 7th series,	13,700 00
Loans, 25 shares, 8th series,	5,000 00
Loans, 43 shares, 9th series,	8,600 00
Loans, 95 shares, 10th series,	19,000 00
Loans, 190 $\frac{1}{4}$ shares, 11th series,	38,050 00
Loans, 61 shares, 12th series,	12,200 00
Accrued interest,	512 50
	<hr/>
	\$103,012 50
	<hr/>

				Cr.	
Investments,	2d series,			\$1,262 28	
"	6th	"		1,760 00	
"	7th	"		4,635 74	
"	8th	"		1,425 70	
"	9th	"		1,812 43	
"	10th	"		3,385 32	
"	11th	"		4,547 14	
"	12th	"		662 91	
					\$19,491 52
Gains,	9 $\frac{3}{4}$ shares,	2d series,		\$509 44	
"	20	" 6th	"	423 20	
"	68 $\frac{1}{2}$	" 7th	"	1,065 17	
"	25	" 8th	"	269 75	
"	43	" 9th	"	297 13	
"	95	" 10th	"	369 55	
"	190 $\frac{1}{4}$	" 11th	"	329 14	
"	61	" 12th	"	26 35	
					\$3,289 73
Balance due,					80,231 25
					<u>\$103,012 50</u>

The next step is to ascertain whether there are enough valuables (assets) on hand, including balance from borrowers to discharge the free shares. This is shown as follows :

				Cr.	
<i>Non-Borrowers.</i>					
Investments,	2d series,			\$14,418 98	
"	3d	"		3,957 00	
"	4th	"		648 00	
"	5th	"		1,728 00	
"	6th	"		2,019 00	
"	7th	"		12,891 14	
"	8th	"		4,456 70	
"	9th	"		12,782 04	
"	10th	"		6,562 86	
"	11th	"		13,472 24	
"	12th	"		10,310 14	
					\$83,246 10
				Cr.	
Gains,	109 $\frac{1}{4}$ shares,	2d series,		\$5,703 31	
"	33	" 3d	"	1,425 27	
"	6	" 4th	"	209 88	
"	18	" 5th	"	497 52	
"	24	" 6th	"	507 84	
"	174	" 7th	"	2,705 70	
"	74	" 8th	"	798 46	
"	267	" 9th	"	1,844 97	
"	182 $\frac{1}{2}$	" 10th	"	709 92	
"	563 $\frac{3}{4}$	" 11th	"	975 28	
"	871	" 12th	"	376 17	
					\$15,759 32
Undivided reserve fund,					308 58
					<u>\$99,314 00</u>
				Dr.	
Mortgage A,				\$4,600 00	
" B,				600 00	
Real estate,				7,950 00	
Safe,				85 00	
Cash,				5,847 75	
Due from borrowers,				80,231 25	
					<u>\$99,314 00</u>

MEMORANDUM.

The net gain on all funds invested is at the rate of 7.15 per cent. per annum. The original sum loaned to borrowers, including accrued interest, aggregates \$108,212.50, since which time the same borrowers have deposited as collateral security (dues on pledged shares) including gains, on their shares, \$22,781.25, thus adding that much to the security held by the association.

The City of Homes is a premium deducting association, but as the money has been sold at par for years, there is found no unearned premium in the liability account. In this plan when a premium is bid it is deducted as follows:

Loan on 10 shares	\$2,000 00
Premium, say 10 per cent	200 00
	<hr/>
Net loan	\$1,800 00

The borrower receives the \$1,800.00 and signs a mortgage for \$2,000 00. His monthly expense is \$10 per month for 10 shares of stock and \$10 per month interest or a total of \$20 per month, equal to \$1 on every \$100.00 borrowed, counting the gross sum of \$2,000.00. The premium deducted is not a profit at once, but, arbitrarily stated, is set aside and drawn upon for profits say, one one-hundredths of the premium every month until all premium is absorbed. The unearned premium is always set down as a liability. When a borrower repays a loan at any period of the life of the series, the unearned portion of the premium that belongs to his loan is returned to him. If the above loan, for instance, was paid off at the end of fifty months after it was made, the settlement would be about as follows:

Gross loan	\$2,000 00
Less $\frac{5.0}{100}$ of \$200 premium	100 00
	<hr/>
Due from borrower	\$1,900 00

Value of Shares.

Paid in 50 months @ \$10 per month dues	\$500 00
Allowance on dues, say 6 per cent. for average time of investment	62 50
	<hr/>
Total credit	\$562 50
	<hr/>
Due from borrower	\$1,900 00
Due borrower	62 50
	<hr/>
Balance to be paid	\$1,337 50

ANOTHER PREMIUM DEDUCTING ASSOCIATION.

FOURTEENTH ANNUAL STATEMENT OF THE QUINCY BUILDING AND HOMESTEAD ASSOCIATION OF QUINCY, ILLINOIS, JUNE 5, 1888.

Receipts.	
Cash in treasury at last statement,	\$1,731 23
From dues,	43,424 00
From interest,	11,596 50
From premiums,	7,861 00
From fines,	280 60
From transfer fees,	9 25
From membership fees,	167 70
From rents,	94 50
From loans,	31,900 00
From tax certificates,	61 20
From sale of real estate,	4,150 00
Total,	<u>\$101,275 98</u>

Disbursements.	
For loans to stockholders,	\$39,300 00
For stock withdrawn and matured,	32,511 00
For interest and profit on same,	12,758 23
For premium on repaid loans,	1,772 20
For taxes, insurance, repairs, etc., and real estate under foreclosure, . .	501 78
For tax certificates,	32 97
For expenses for the year,	1,904 15
Cash in treasury,	12,495 65
Total,	<u>\$101,275 98</u>

Assets.	
Loans to stockholders,	\$198,500 00
Safe,	250 00
Tax certificates and taxes adv. and real estate under foreclosure,	1,704 07
Cash in treasury,	12,495 65
Dues unpaid,	\$294 00
Interest unpaid,	1,545 50
Fines unpaid,	240 30
	<u>2,079 80</u>
Total,	<u>\$215,029 52</u>

Liabilities.	
Amount of dues paid on stock,	\$144,989 50
Matured and unsettled stock,	2,220 65
Suspense account,	1,500 00
Unearned premiums,	22,811 70
Net profits,	43,507 67
Total,	<u>\$215,029 52</u>

Values	
NET VALUE OF EACH SERIES.	
Matured and unsettled stock,	\$2,220 65
98 shares, fifth series,	8,789 74
108 shares, sixth series,	8,696 84
89 shares, seventh series,	6,266 20
574 shares, eighth series,	34,130 04
602 shares, ninth series,	29,372 14
832 shares, tenth series,	32,307 80
724 shares, eleventh series,	21,351 80
1010 shares, twelfth series,	21,330 10

1277 shares, thirteenth series,	\$17,065 35
1453 shares, fourteenth series,	9,180 08
Undivided balance,	7 09
Net value of stock,	\$190,717 82
Profits not earned (unearned premiums),	22,811 70
Suspense account,	1,500 00
Total assets,	\$215,029 52

Net Value of Each Share.

SERIES.	5th.	6th.	7th.	8th.	9th.	10th.	11th.	12th.	13th.	14th.
Dues,	\$60 00	\$54 00	\$48 00	\$42 00	\$36 00	\$30 00	\$24 00	\$18 00	\$12 00	\$6 00
Profit,	35 63	28 98	22 80	17 43	12 82	8 90	5 70	3 21	1 42	36
Total value,	\$95 63	\$82 98	\$70 80	\$59 46	\$48 82	\$38 90	\$29 70	\$21 21	\$13 42	\$6 36

Statistics of Shares.

SERIES.	Shares withdrawn.	Shares loaned upon.	Shares in force.	Number of stockholders.
No. 2,		16	16	1
No. 4,	151	3	3	1
No. 5,	13	98	98	7
No. 6,	107	108	108	14
No. 7,	155	89	94	12
No. 8,	45	240	574	42
No. 9,	21	140	602	47
No. 10,	80	192	832	68
No. 11,	70	219	724	63
No. 12,	83	261	1,010	93
No. 13,	286	274	1,277	115
No. 14,	223	345	1,453	130
Total,	1,234	1,985	6,791	593

Statistical.

	Receipts.	Assets.		No. of shares issued.	No. of shares withdrawn.
1st year, . . .	\$35,249 60	\$34,103 35	1st series, . . .	3,562	Matured.
2d year, . . .	54,490 10	80,563 70	2d series, . . .	1,502	do.
3d year, . . .	68,592 69	110,936 13	3d series, . . .	1,131	do.
4th year, . . .	67,112 42	130,555 55	4th series, . . .	1,177	do.
5th year, . . .	64,759 60	162,034 31	5th series, . . .	907	809
6th year, . . .	74,250 15	176,763 06	6th series, . . .	899	791
7th year, . . .	103,956 90	174,860 79	7th series, . . .	1,090	996
8th year, . . .	106,544 90	192,116 20	8th series, . . .	1,297	723
9th year, . . .	73,705 45	198,467 52	9th series, . . .	1,440	838
10th year, . . .	112,988 15	181,849 11	10th series, . . .	2,046	1,214
11th year, . . .	94,912 34	188,520 54	11th series, . . .	1,671	947
12th year, . . .	105,406 80	192,774 06	12th series, . . .	1,677	667
13th year, . . .	88,340 75	200,463 08	13th series, . . .	1,986	709
14th year, . . .	99,544 75	215,029 52	14th series, . . .	1,676	223
Total, . . .	\$1,149,854 60				

Series of stock matured, 4 ; number of loans made, 625 ; shares, \$100.00 ; payments, fifty cents monthly.

The Quincy association is copied after the Pennsylvania plan. The final value of each share is \$100.00, but the payments are only fifty cents per month on each share. The only difference between this and the \$200.00 plan is that two shares of the one equal one share of the other. The premiums are quite large in the Western States and it will be noticed that this society has set aside as unearned premiums \$22,811.70.

AN INTEREST REDUCTION ASSOCIATION.

EIGHTH ANNUAL REPORT OF THE GERMAN ENTERPRISE BUILDING ASSOCIATION, PHILADELPHIA, DECEMBER, 1887—NOVEMBER, 1888.

<i>Receipts.</i>	
Balance in treasury as per last annual report,	\$1,201 08
Dues, interest, fines, enrolment fees and loans returned,	62,981 55
Treasurer overdrawn,	792 29
	<hr/>
	\$64,974 92

<i>Expenditures.</i>	
For loans on 223 shares,	\$41,225 00
For withdrawal and cancellation of 450 shares,	18,754 27
For withdrawal of advance payments,	4,210 00
For interest on advance payments,	146 50
For salaries,	578 00
For advertising, printing, postage, etc.,	61 15
	<hr/>
	\$64,974 92

REAL ASSETS OF THE ASSOCIATION.

<i>Assets.</i>	
1. Series, 136 shares loaned on, owe	\$10,152 00
2. Series, 45 shares loaned on, owe	3,411 00
3. Series, 44 shares loaned on, owe	2,691 00
4. Series, 63 shares loaned on, owe	7,782 00
5. Series, 92 shares loaned on, owe	8,647 00
6. Series, 109 shares loaned on, owe	15,819 00
7. Series, 199 shares loaned on, owe	27,388 00
8. Series, 211 shares loaned on, owe	37,078 00
	<hr/>
899	\$112,968 00
Arrears on books,	302 71
Two safes,	125 00
	<hr/>
	\$113,395 71

<i>Liabilities.</i>	
1. Series, 278 free shares paid in @ \$96,	\$26,688 00
2. Series, 68 free shares paid in @ \$84,	5,712 00
3. Series, 61 free shares paid in @ \$72,	4,603 00
4. Series, 167 free shares paid in @ \$60,	10,020 00
5. Series, 178 free shares paid in @ \$48,	8,544 00
6. Series, 352 free shares paid in @ \$36,	12,672 00
7. Series, 682 free shares paid in @ \$24,	16,368 00
8. Series, 783 free shares paid in @ \$12,	9,456 00
	<hr/>
2,577	\$94,068 00
Dues paid in advance,	687 98
Accrued interest on advance payments,	92 37
Treasurer overdrawn,	792 29

Six per cent. interest on the amount paid in on free stock :		
1. Series,		\$6,405 12
2. Series,		1,199 52
3. Series,		829 44
4. Series,		1,503 00
5. Series,		1,025 28
6. Series,		1,140 48
7. Series,		982 03
8. Series,		283 68
		<hr/>
		\$13,368 60
Surplus over 6 per cent.,		4,386 47
		<hr/>
		\$113,395 71
		<hr/>

PRESENT NUMBER OF SHARES.

1. Series,	136 shares loaned on,	278 free shares,	Total, 414
2. Series,	45 shares loaned on,	68 free shares,	Total, 113
3. Series,	44 shares loaned on,	64 free shares,	Total, 108
4. Series,	63 shares loaned on,	167 free shares,	Total, 230
5. Series,	92 shares loaned on,	178 free shares,	Total, 270
6. Series,	109 shares loaned on,	352 free shares,	Total, 461
7. Series,	199 shares loaned on,	682 free shares,	Total, 881
8. Series,	211 shares loaned on,	783 free shares,	Total, 999
		<hr/>	
		899	
		2,577	
		<hr/>	3,476

The association has 899 shares borrowed on, and 2,577 shares not borrowed on. The shares borrowed on are, however, in reality, not in force, being “canceled” at the time the loan is made—the payments on the same are payments on account of the loan, and only the shares not borrowed on participate in the profits, which profits are, as above, 6 per cent. interest on the shares not borrowed on, and in addition, a surplus (over 6 per cent.) of \$4,386.47.

There are a number of building associations in Pennsylvania conducted on the plan of the German Enterprise. In this plan the shares borrowed on are considered not in force, as the payments on the same are in reality payments on account of the loan, and only the shares not borrowed on participate in the profits. The interest is reduced every year on the loan to agree with the amount the borrower pays in as dues, and, as the borrower does not have any investments in the society (except what he pays in during the current year) he, of course, does not share in the gains. It will be noticed that the 899 shares on which loans have been made, originally borrowed \$200 each, or a total of \$179,800, and from year to year the dues paid in have been deducted to the extent of \$66,832, that much of the original debt having been cancelled, leaving a balance of \$112,968 paying interest for the year just begun. This reduction is more plainly noticeable in the first issue of shares, which originally borrowed on 136 shares \$200 each, or \$27,200, and has been reduced to \$10,152. a reduction of \$17,048, making the interest payment lighter every year. The dues, however, of one dollar per share, are the same from the start to the finish. Some associations conducting business on the foregoing plan, when the surplus over six per cent. increases beyond a certain per cent, declare a dividend to help the borrower along, but it is not promised. This plan is not new, and it has many varieties which will not be dwelt upon at this time.

AN INTEREST IN ADVANCE ASSOCIATION.

HERMANN BUILDING AND LOAN ASSOCIATION, No. 2.

(Special report ten years and five months.)

Plan: Interest in Advance.

No further payments to the first series necessary.

Receipts.	
Balance in treasury from last year,	\$426 75
For dues,	12,218 00
For interest in advance,	6,500 00
For interest,	515 32
For fines,	64 68
	<hr/>
	\$19,724 75

Disbursements.	
For loans on 65 shares, at \$200,	\$13,000 00
For 87 withdrawn shares,	2,802 54
For advance payments repaid with interest,	174 59
For secretary's salary,	135 00
For expenses for printing receipt books,	45 00
Balance in treasury,	3,567 62
	<hr/>
	\$19,724 75

INVENTORY.

Assets.	
Loans on 1,230 shares, at \$200,	\$246,000 00
Arrearages—dues and fines,	1,258 41
Two safes,	160 00
Balance in treasury,	3,567 62
	<hr/>
	\$250,986 03

Deduct:

Advance payments and interest,	\$3,266 55	
Unearned interest,	58,164 00	
	<hr/>	61,430 55

Net assets,	\$189,555 48
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Liabilities.	
Paid on 332 shares, 1st series, at 125,	\$41,500 00
Paid on 119 shares, 2d series, at 113,	13,447 00
Paid on 63 shares, 3d series, at 101,	6,363 00
Paid on 165 shares, 4th series, at 89,	14,685 00
Paid on 269 shares, 5th series, at 77,	20,713 00
Paid on 101 shares, 6th series, at 65,	6,565 00
Paid on 148 shares, 7th series, at 53,	7,844 00
Paid on 171 shares, 8th series, at 41,	7,011 00
Paid on 262 shares, 9th series, at 29,	7,598 00
Paid on 321 shares, 10th series, at 17,	5,457 00
Paid on 311 shares, 11th series, at 5,	1,555 00
Interest paid in advance (unearned),	58,164 00
Advance payments and interest,	3,266 55
Net gain in 10 years and 5 months,	56,817 48
	<hr/>
	\$250,986 03

INTEREST IN ADVANCE.

Receipts of interest in 10 years,	\$113,815 00
Receipts of interest in the last 5 months,	6,500 00
	<hr/>
Total,	\$120,315 00
Interest earned in 10 years and 5 months,	62,151 00
	<hr/>
Interest earned (liable to return),	\$58,164 00

Value of Shares.

SERIES.	Paid in per share.	Gain per share.	Value per share.	Total value of shares.	Undivided.	Gain for each series.	Gain for last 5 months.
First,	125 00	\$75 86	\$200 00	\$66,685 52	\$0 97	\$25,186 49	\$5 45
Second,	113 00	61 99	174 99	20,823 81	76	7,377 57	4 96
Third,	101 00	49 52	150 52	9,482 76	51	3,120 27	4 46
Fourth,	89 00	38 45	127 45	21,029 25	1 36	6,345 61	3 95
Fifth,	77 00	28 78	105 78	28,454 82	1 79	7,743 61	3 43
Sixth,	65 00	20 51	85 61	8,663 51	34	2,071 85	2 91
Seventh,	53 00	13 63	66 63	9,861 24	1 23	2,018 47	2 37
Eighth,	41 00	8 16	49 16	8,406 36	28	1,395 64	1 83
Ninth,	29 00	4 08	33 08	8,666 96	85	1,069 81	1 27
Tenth,	17 00	1 40	18 40	5,906 40	1 01	450 41	70
Eleventh,	5 00	12	5 12	1,592 32	43	37 75	12
Total,				\$189,545 95	\$9 53	\$56,817 48	
Undivided,				9 53			
Net assets of the association,				\$189,555 48			

The special report for 10 years and 5 months certifies the value of each share of the first series at \$200.86, and the same will be declared matured at the close of the 125th month, November 28, 1888. The liabilities of the association to the first series amount to \$12,213, which includes 7 free shares that will be paid \$200 in full on each share, and the paying off of the first series will commence after the November meeting.

PHILADELPHIA, November 20, 1888.

There are perhaps twenty or thirty building associations in this State doing business on what is termed the the interest in advance plan, such as the “Hermann No. 2,” whose statement is given above. One dollar a month interest on \$200 is at the rate of 6 per cent. per annum. In this plan if a borrower desires \$2,000 net he must borrow on 20 shares, namely:

Twenty shares at \$200,	\$4,000 00
Less 100 months interest in advance,	2,000 00
Net loan,	\$2,000 00

The mortgage is made out for \$4,000, but the monthly payment is \$20, the same as in other associations on \$2,000 borrowed—that is \$1 on every \$100 net received. The stock matures when the shares reach the value of \$200 each. The association considers one one hundredth of the advanced interest as earned each month, the balance being treated as a liability. This plan is calculated to make the borrower “stick” until the end because it (according to the original working of the plan) is more costly for the borrrwer to pay off his loan at intermediate points than by other plans. A number of these associations have modified these details so as to favor the borrower. Nearly every one of the different plans has an interesting history, but this arbitrary statement must suffice for the present.

A MONTHLY PREMIUM ASSOCIATION.

SECRETARY'S ELEVENTH SEMI-ANNUAL REPORT OF THE PEOPLES' BUILDING AND LOAN ASSOCIATION, OF PITTSBURGH, PA., FOR THE HALF-YEAR ENDING NOVEMBER 6TH, 1888, AND AN EXHIBIT OF THE BUSINESS TRANSACTED BY IT FROM ITS ORGANIZATION, MAY 15TH, 1883.

Capital authorized	\$1,000,000 00
Par value of shares	\$200 00

The Association has been in operation for five and one-half years. In that time 6,675 shares have been sold, 3,040 of which have been withdrawn or forfeited, leaving 3,635 still in force.

The earnings are steadily and rapidly increasing. During the fourth year the net profit amounted to \$8,921.50. For the fifth year it was \$13,323.49; and during this past *half-year* it amounts to \$8,046.01, or nearly as much as was earned during the whole of the fourth year.

The money received by the secretary and paid to the treasurer during the past six months, amounted to \$53,717.77. Of this sum \$23,622.45 was from dues on stock; \$4,217.12 from interest; \$2,856.51 from premiums; \$112.27 from fines; \$108.00 from initiation fees; \$22,766.00 from loans paid off, and the balance from transfer fees and accrued profits paid by new members who subscribed for stock more than six months old.

During the same time there has been expended the following sums, for the following purposes, viz: Amounts paid on loans \$48,465.01; on stock withdrawn \$5,345.55, and for expenses \$396.24—the item of expenses covers secretary's salary, office rent, printing, books, stationery, advertising and interest paid to stockholders on advance payments, made under by-law 16.

The expense of conducting the business of the association has been very low; it is less than eight-tenth of one per cent. on the amount of money handled by the secretary and treasurer during the past half year. As the association grows older, and the volume of its business increases, the percentage of expense gradually becomes less.

Though the premiums bid for loans are much lower now than during the first two or three years, yet the distribution of profits shown below is at the rate of nearly $14\frac{2}{10}$ per cent. per annum on the amount paid on each share of stock in each series for the length of time the association has had the use of the money.

Withdrawing members receive 60 per cent. of this profit, or over $8\frac{1}{2}$ per cent. on their money for the time the association has had the actual use of it.

The demand for loans continues to be fully as great as when first organized.

Our association is prosperous in every way, and from the rate of profit earned in the past, the first series of stock may be expected to mature in about $3\frac{1}{2}$ years from this time.

Annexed will be found the balance sheet or statement, taken from the books of the association, showing all the business transacted by it since its organization, $5\frac{1}{2}$ years ago.

<i>Receipts.</i>	
Dues,	\$179,946 02
Fines,	1,382 53
Interest,	21,223 78
Premiums,	17,270 21
Initiation fees,	1,668 75
Transfer fees,	115 50
Accrued profits paid by new members,	574 70
Loans paid off,	107,092 15
Balance due treasurer,	67 47
	<hr/> \$329,341 11 <hr/>
<i>Expenditures.</i>	
Expenses paid since organization,	\$4,126 17
Amount paid on loans,	280,877 54
Amount paid on withdrawals,	44,337 40
	<hr/> \$329,341 11 <hr/>

Assets.

Mortgages, etc., to secure loans,	\$186,570 50
Balances owing by stockholders,	5,846 27
	<hr/>
	\$192,416 77

Liabilities.

Amounts overpaid by stockholders,	\$2,971 17
Interest due on advanced payments,	80 92
Amount due on withdrawn stock,	457 58
Amount unpaid on above loans,	11,952 50
Balance due treasurer,	67 47
	<hr/>
	\$15,529 64

\$176,887 13

Dues accrued on 931 shares of 1st series, at \$71 50,	\$66,566 50
“ “ 54 “ 2d “ 65 00,	3,510 00
“ “ 112 “ 3d “ 58 50,	6,552 00
“ “ 171 “ 4th “ 52 00,	8,892 00
“ “ 174 “ 5th “ 45 50,	7,917 00
“ “ 260 “ 6th “ 39 00,	10,140 00
“ “ 189 “ 7th “ 32 50,	6,142 00
“ “ 264 “ 8th “ 26 00,	6,864 00
“ “ 507 “ 9th “ 19 50,	9,886 50
“ “ 563 “ 10th “ 13 00,	7,319 00
“ “ 410 “ 11th “ 6 50,	2,665 00
	<hr/>
	\$136,454 50

Net profit, \$40,432 63

Distribution of Profits.

1st series, 931 shares at \$27 83,	\$25,909 73
2d “ 54 “ 23 00,	1,242 00
3d “ 112 “ 18 63,	2,086 56
4th “ 171 “ 14 72,	2,517 12
5th “ 164 “ 11 27,	1,960 98
6th “ 260 “ 8 28,	2,152 80
7th “ 189 “ 5 75,	1,086 75
8th “ 264 “ 3 68,	971 52
9th “ 507 “ 2 07,	1,049 49
10th “ 563 “ 92,	517 96
11th “ 410 “ 23,	94 30
	<hr/>
	\$39,589 21

Balance undivided, \$843 42

Number of series.	Amount paid on each share.	Amount earned on each share.	Present value of each share.	Number of shares in each series.	Amount paid on all the shares in each series.	Amount earned on all the shares in each series.	Total value of all the shares in each series.
1,	\$71 50	\$27 83	\$99 33	931	\$66,566 50	\$25,909 73	\$92,476 23
2,	65 00	23 00	88 00	54	3,510 00	1,242 00	4,752 00
3,	58 50	18 63	77 13	112	6,552 00	2,086 56	8,638 56
4,	52 00	14 72	66 72	171	8,892 00	2,517 12	11,409 12
5,	45 50	11 27	56 77	174	7,917 00	1,960 98	9,877 98
6,	39 00	8 28	47 28	260	10,140 00	2,152 80	12,292 80
7,	32 50	5 75	38 25	189	6,142 50	1,086 75	7,229 25
8,	26 00	3 68	29 68	264	6,864 00	971 51	7,835 52
9,	19 50	2 07	21 57	507	9,886 50	1,049 49	10,935 99
10,	13 00	92	13 92	563	7,319 00	517 96	7,836 96
11,	6 50	23	6 73	410	2,665 00	94 30	2,759 30
Balance of profit undivided,				3,635	\$136,454 50	\$39,589 21	\$176,043 71
Present net assets,							843 42
							\$176,887 13

November 6th, 1888.

The above association transacts its business on the plan of collecting its premiums in cash at each meeting. It holds twenty-six meetings in each year. If a stockholder borrows \$1,000, he must own five shares of stock. The dues on the stock at fifty cents per share for each meeting will be \$13 per share per year, or \$65 on five shares. The interest on \$1,000 for a year at six per cent. is \$60, and the premium at the rate of forty cents per share at each meeting will be \$2 on five shares, and for twenty-six meetings in the year will amount to \$52.

This is at a greater rate of premium than in our example society. In the latter the forty cents per share premium (if that amount is bid) is paid twenty-six times a year on one share, and in the example society, the premium is collected but twelve times a year. The Pittsburgh example therefore would naturally mature a series in less than one hundred and twenty-six months. The secretary of the "People's", gives the following example of costs :

We have then dues for one year on five shares, or \$1,000 worth of stock, . .	\$65 00
Interest for one year,	60 00
Premium for one year,	52 00
Total dues, interest and premium on \$1,000 for one year,	\$177 00

Divide this by 12 and we have \$14.75 per month to carry a loan of \$1,000. Ordinarily \$1,000 will build a house that will rent for enough, or nearly enough, to pay this \$14.75 per month, and such a house will about pay for itself, requiring but little more than the care and attention of the owner, collect the rents and make the payments to the association. Or, what is still better, if he is a renter move in the house himself, that being the real object of such associations.

There are many associations worked on this plan with variations in minor details.

APPENDIX.

RULES FOR DIVIDING GAINS.

The following explanation of the division of gains is from the *Building Association and Home Journal*, Philadelphia :

Numerous inquiries are at hand concerning the plan of dividing profits in building associations which is in most general use. This is believed to be the “partnership plan,” or, as designated in arithmetic, “compound partnership,” and the rule there given is as follows : *Rule.* Multiply each partner’s capital by the time it was employed and divide the gain or loss in proportion to these products.

Two persons enter into partnership and gain \$328. A. puts in \$800 for 5 months, and B. \$700 for 6 months. What was each man’s share of the gain ?

Operation.

$$\$800 \times 5 = \$4,000 = \text{A.'s for 1 month.}$$

$$\$700 \times 6 = \$4,200 = \text{B.'s for 1 month.}$$

$$\$8,200 = \text{whole for 1 month.}$$

$$\frac{4000}{8200} = \frac{20}{41} = \text{A.'s share of capital.}$$

$$\frac{4200}{8200} = \frac{21}{41} = \text{B.'s share of capital.}$$

$$\$328 \times \frac{20}{41} = \$160, \text{ A.'s gain.}$$

$$\$328 \times \frac{21}{41} = 168, \text{ B.'s gain.}$$

There is much more work in the above than appears on the surface, and there are other processes which are believed to be easier in practice.

A building association, it may be assumed, has six series and 100 shares in each, and the net profit \$6,678. This may be divided according to the following rule :

Multiply each series investments (dues counted full paid) by the average time invested. Add results for product of results. Multiply each result by the total gain since organization, and divide in each case by product of results. The quotients will be each series’ gain. Divide each series’ gain by the number of shares in that series to find the gain per share.

The work is greatly shortened by issuing a formula which has been devised. It runs in numerical order for a society issuing series beginning with the last series as follows: 1, 4, 9, 16, 25, 36, 49, 64, 81, 100, 121, 144, etc.

When the formula is used the shares are multiplied by the formula, instead of the investment being multiplied by the time. The rest of the rule remains unchanged.

OPERATION.						
SERIES.	Shares.	Formula.	Results.	Total gain.	Gain per series.	
First,	100	$\times 36 =$	\$3,600	$\times \$6,678 =$	\$24,040,800	$\div \$9,100 =$ \$2,641 88
Second,	100	$\times 25 =$	2,500	$\times 6,678 =$	16,695,000	$\div 9,100 =$ 1,834 61
Third,	100	$\times 16 =$	1,600	$\times 6,678 =$	10,684,800	$\div 9,100 =$ 1,174 14
Fourth,	100	$\times 9 =$	900	$\times 6,678 =$	6,010,200	$\div 9,100 =$ 660 46
Fifth,	100	$\times 4 =$	400	$\times 6,678 =$	2,671,200	$\div 9,100 =$ 293 53
Sixth,	100	$\times 1 =$	100	$\times 6,678 =$	667,800	$\div 9,100 =$ 73 38
Product of results,				\$9,100	\$6,678 00	

The formula or money-making power of a share is determined by squaring the number of months. The power of a share 132 months old is $132 \times 132 = 17,424$; that is, 17,424 times the power of \$1 paid in one month. When the shares are issued yearly the formula is made by squaring the number of years, as above. The solution of the formula, while given some time ago, is repeated here to make the figures as useful as possible to those who intend to use them, namely: If a \$12 share has the money-making power of *one* (arbitrary), average time six months, then a \$24 share, with twelve months' average time, is the power of *four*, the latter being twice the money of the former, and twice the time ($2 \times 2 = 4$). Therefore, if the \$12 share earns 36 cents, the \$24 share earns \$1.44, or four times as much.

When the foregoing plans are perfectly understood, a still shorter method may be used to prove the work of the secretary, namely: Proceed with the rule until the "product of results" is obtained (in this case \$9,100), then divide the gain by it as follows:

$$\$6,678.00 \div 9,100 = 73.38.$$

This at once gives the gain of *one share* in the last series 73³³/₁₀₀ cents. Now multiply this by the formula and the gain of a single share in each series is known.

OPERATION.	
$73.38 \times 36 =$	\$26 41.68
$73.38 \times 25 =$	18 34.50
$73.38 \times 16 =$	11 74.08
$73.38 \times 9 =$	16 60.42
$73.38 \times 4 =$	2 93.52
$73.38 \times 1 =$	73.38

The division of the gain, \$244,046.00, between the 10,000 shares, using the formula of 1, 4, 9, 16, etc., would be as follows :

Series.	Shares.	Formula.
1st.,	1,000	× \$100 = \$100,000
2d.,	1,000	× 81 = 81,000
3d,	1,000	× 64 = 64,000
4th,	1,000	× 49 = 49,000
5th,	1,000	× 36 = 36,000
6th,	1,000	× 25 = 25,000
7th,	1,000	× 16 = 16,000
8th,	1,000	× 9 = 9,000
9th,	1,000	× 4 = 4,000
10th,	1,000	× 1 = 1,000

		\$385,000

244,046.00 ÷ 385,000 = 63.38. That is 63³⁸/₁₀₀ cents per one share in the last or tenth series.

Now multiply this by the formula and the gain of a single share in each series is shown.

Operation.	Shares.	Gains.
63.38 × 100 = \$63 38.00	× 1,000	\$63,380 00
63.38 × 81 = 51 33.78	× 1,000	51,337 80
63.38 × 64 = 40 56.32	× 1,000	40,563 20
63.38 × 49 = 31 05.62	× 1,000	31,056 20
63.38 × 36 = 22 81.68	× 1,000	22,816 80
63.38 × 25 = 15 84.50	× 1,000	15,845 00
63.38 × 16 = 10 14.08	× 1,000	10,140 80
63.38 × 9 = 5 70.42	× 1,000	5,704 20
63.38 × 4 = 2 53.52	× 1,000	2,535 20
63.38 × 1 = 63.38	× 1,000	633 80

		\$244,013 00
Undivided		33 00

Total gains		\$244,046 00

The real gain being a fraction over 63³⁸/₁₀₀ of a dollar for the 10th series accounts for an undivided balance of \$33.00

This plan of division is open to some disputes because it does not give to the older series as much gain as would appear to be due them in example society worked out upon strict mathematical progress. The rejection of the plan also involves many nice points of building society science, and it has been discussed at great length by experts in the business. These questions cannot be considered at this time and the plan is given for what it is worth. There is this to be said, however. If this serial society decided to cease issuing series, and gradually wind up its shares in the ordinary course of the business, it is not likely that any one of the series would have gained at the end of ten years more than the division given to the oldest series in this instance.

LAWS OF PENNSYLVANIA FOR THE INCORPORATION AND REGULATION OF BUILDING AND LOAN ASSOCIATIONS.**1.—Act of April 29, 1874(P. L. p. 96).**

SECTION 37. Building and loan associations incorporated under the provisions of this act, shall have the powers and from the date of the letters patent creating the same, when not otherwise provided in this act, be governed, managed and controlled as follows :

Clause 1. They shall have the power and franchise of loaning or advancing to the stockholders thereof the moneys accumulated from time to time, and the power and right to secure the repayment of such moneys, and the performance of the other conditions upon which the loans are to be made, by bond and mortgage or other security, as well as the power and right to purchase or erect houses, and to sell, convey, lease or mortgage the same at pleasure to their stockholders or others for the benefit of their stockholders, in such manner, also, that the premiums taken by the said associations, for the preference or priority of such loans, shall not be deemed usurious, and so, also, that in case of non-payment of installments, premiums or interests by borrowing stockholders, for six months, payment of principle, premiums and interest, without deducting the premiums paid, or interest thereon, may be enforced by proceeding on their securities according to law.

Clause 2. The capital stock of any corporation created for such purposes by virtue of this Act, shall at no time consist in the aggregate of more than one million dollars, to be divided into shares of such denomination, not exceeding five hundred dollars each, and in such number as the incorporators may in the application for their charter, specify : *Provided*, That the capital stock may be issued in series ; but no such series shall at any issue exceed in the aggregate five hundred thousand dollars, the instalments on which stock are to be paid at such time and place as the by-laws shall appoint ; no periodical payment of such instalments to be made exceeding two dollars on each share, and said stock may be paid off and retired as the by-laws shall direct. Every share of stock shall be subject to a lien for the payment of unpaid instalments and other charges incurred thereon under the provisions of the charter and by-laws, and the by-laws may prescribe the form and manner of enforcing such lien ; new shares of stock may be issued in lieu of the shares withdrawn or forfeited ; the stock may be issued in one or in successive series, in such amount as the board of directors or the stockholders may determine : and any stockholder wishing to withdraw from the said corporation, shall have power to do so by giving thirty days' notice of his or her intention to withdraw, when he or she shall be entitled to receive the amount paid in by him or her, less all fines and other charges ; but after the expiration of one year from the issuing of the series, such stockholders shall be entitled, in addition thereto, to legal interest thereon : *Provided*, That at no time shall more than one-half of the funds in the treasury of the corporation be applicable to the demands of withdrawing stockholders without the consent of the board of directors, and that no stockholders shall be entitled to withdraw, whose stock is held in pledge for security. Upon the death of a stockholder, his or her legal representatives shall be entitled to receive the full amount paid in by him or her and legal interest thereon, first deducting all charges that may be due on the stock. No fines shall be charged to a deceased member's account from and after his or her decease, unless his legal representatives of such decedent assume the future payments on the stock.

Clause 3. That the number, titles, functions and compensation of the officers of any such corporation, their terms of office, the times of their elections, as well as the qualifications of electors, and the ratio and manner of voting, and the periodical meetings of the said corporation, shall be determined by the by-laws, when not provided by this act.

Clause 4. That the said officers shall hold stated meetings, at which the money in the treasury, if over the amount fixed by the charter as the full value of a share, shall be offered for loan in open meeting and the stockholder who shall bid the highest premium for the preference or priority of loan, shall be entitled to receive a loan of not more than the amount fixed by charter as the full value of a share for

each share of stock held by such stockholder: *Provided*, That a stockholder may borrow such fractional part of the amount fixed by Charter as the full value of a share, as the by-laws may provide; good and ample security, as prescribed by the by-laws of the corporation, shall be given by the borrower to secure the re-payment of the loan; in case the borrower shall neglect to offer security, or shall offer security that is not approved by the board of directors, by such time as the by-laws may prescribe, he or she shall be charged with legal interest, together with any expenses incurred, and the loss in premium, if any, on a re-sale, and the money may be resold at the next stated meeting; in case of non-payment of instalments or interest by borrowing stockholders, for the space of six months, payment of principal and interest, without deducting the premium paid or interest thereon, may be enforced by proceeding on their securities according to law.

Clause 5. That a borrower may repay a loan at any time, and in case of the repayment thereof, before the expiration of the eighth year, after the organization of the corporation, there shall be refunded to such borrower one-eighth of the premium paid for every year of the said eight years then unexpired: *Provided*, When the stock is issued in separate series the time shall be computed from the date of the issuing the series of stock on which the loan was made.

Clause 6. That no premiums, fines or interest on such premiums, that may accrue to the said corporation, according to the provisions of this act, shall be deemed usurious, and the same may be collected as debts of like amount are now by law collected in this Commonwealth.

Clause 7. That no corporation or association created under this Act shall cease or expire from neglect on the part of the corporation to elect officers at the time mentioned in their charter or by-laws, and all officers elected by such corporation, shall hold their offices until their successors are duly elected.

Clause 8. Any loan or building association incorporated by or under this act, is hereby authorized and empowered to purchase at any sheriff's or other judicial sale, or at any other sale, public or private, any real estate, upon which such association may have or hold any mortgage, judgment lien, or other incumbrance, or ground rent, or in which said association may have an interest, and the real estate so purchased, or any other that such association may hold or be entitled to at the passage of this act, to sell, convey, lease, or mortgage at pleasure, to any person or persons whatsoever; and all sales of real estate heretofore made by such association to any person or persons not members of the association so selling are hereby confirmed and made valid.

Clause 9. All such corporations shall have full power to purchase lands and to sell and convey the same, or any part thereof, to their stockholders or others, in fee simple, with or without the reservation of ground rents, but the quantity of land purchased by any one of said associations hereafter incorporated, shall not, in the whole, exceed fifty acres, and in all cases the lands shall be disposed of within ten years from the date of the incorporation of such associations respectively.

Clause 10. That all land and building associations are hereby authorized to make sale of and assign or extinguish to any person or persons the ground rents created as aforesaid.

2.—Act of April 25, 1876 (P. L. p. 47).

Supplementary to the Act of April 29, 1874.

SECTION 1. *Be it enacted, etc.*, That in all elections for directors, managers or trustees of any corporation created under the provisions of this statute, or accepting its provisions, each member or stockholder or other person having a right to vote, may cast the whole number of his votes for one candidate, or distribute them upon two or more candidates as he may prefer, that is to say: if the said member or stockholder or other person having a right to vote, own one share of stock, or has one vote, or is entitled to one vote for each of six directors by virtue thereof, he may give one vote to each of said directors, or six votes for any one thereof, or a less number of votes for any less number of directors, whatever may be the actual number to be elected, and in this manner may distribute or cumulate his votes as he may see fit; all elections for directors or trustees shall be by ballot, and of every share

of stock shall entitle the holder thereof to one vote, in person or by proxy, to be exercised as provided in this section.

3.—Act of April 10, 1879 (P. L. p. 16).

SECTION 1. *Be it enacted, etc.,* That it shall be lawful for any mutual savings fund, or building and loan association, now incorporated or hereafter to be incorporated, in addition to dues and interest, to charge and receive the premium or bonus bid by a stockholder for preference or priority of right to a loan in periodical instalments; and such premium or bonus so paid in instalments shall not be deemed usurious, but shall be taken to be a payment as it falls due in contra-distinction to a premium charged and paid in advance; and in so far as said premium or bonus so charged and paid in addition to dues and interest, shall be in excess of two dollars for each periodical payment, the same shall be lawful, any law, usage or custom to the contrary notwithstanding. It shall also be lawful for any mutual savings fund or building and loan association to charge and deduct interest in advance, in lieu of premiums for preference or priority of right to a loan: *Provided,* That the certificate of incorporation of each association hereafter to be incorporated, and the certificate provided in section 9 of this act for those heretofore incorporated, shall set forth whether the premium or bonus bid for the prior right to a loan shall be deducted therefrom in advance or paid in periodical instalments, or whether interest in advance shall be deducted from the loan in lieu of premium or bonus.

SEC. 2. Stockholders withdrawing voluntarily, shall receive such proportion of the profits of the association or such rate of interest as may be prescribed by the by-laws, any law or usage to the contrary notwithstanding; but payment of the value of stock so withdrawn, shall only be due when the funds now by law applicable to the demand of withdrawing stockholders are sufficient to meet and liquidate the same, and then only in the order of the respective times of presentation of the notices of such withdrawals, which must have been presented in writing at a previous stated meeting, and have been then and there endorsed as to times of presentation by the officer designated by the by-laws of the association.

SEC. 3 The by-laws may provide for the involuntary withdrawal and cancellation at or before maturity of shares of stock not borrowed on: *Provided,* That such withdrawal and cancellation shall be *pro rata* among the shares of the same series of stock: *And provided further,* That not less than legal interest shall be credited and allowed to each share so withdrawn and canceled.

SEC. 4. A borrower may repay a loan at any time, and in case of the repayment thereof before the maturity of the shares pledged for said loan, there shall be refunded to such borrower (if the premiums, bonus or interest shall have been deducted in advance) such proportions of the premiums, bonus or advance interest bid, as the by-laws may determine: *Provided,* That in no case shall the association retain more than one hundredth of said premiums or bonus for each calendar month that has expired since the date of the meeting upon which the loan was made, or if interest in advance, it shall retain only the interest due on the loan up to the time of settlement: *And further provided,* That such borrower shall receive the withdrawing value of the shares pledged for said loan, and the shares shall revert back to the association.

SEC. 5. In case of non-payment of instalments of stock, premiums, dues or interest by borrowing stockholders, for the space of six months, payment of the same, together with the full principal of the loan, may be enforced by proceeding on their securities according to law; and the moneys so recovered shall be paid into the treasury of the association, for such uses (loans or otherwise) as may be deemed proper by the association; and if the said moneys so recovered, together with the withdrawal value of the shares of such defaulting borrower, shall exceed the amount it would have required, according to the preceding section, to have voluntarily repaid the loan, together with all the expenses incurred by the association, such excess shall be repaid to such defaulting borrower.

SEC. 6. Fines or penalties for the non-payment of instalments of dues, interest and bonus or premium, shall not exceed two per centum per month on all arrears.

SEC. 7. It shall be lawful for any married woman of full age to hold stock in any

of said saving funds, building or loan associations; and as such stockholder, she shall have all the rights and privileges of other members, including the right to borrow money from said associations and bid premiums therefor, and shall also have the right and power to secure such loan by transferring her said stock or other securities to said association from which the same was borrowed, or by executing bond and mortgage upon her separate real estate to secure said loan: *Provided, however,* That the husband of such married woman join in the execution of such bond or mortgage; and such married woman shall also have the right to sell, assign and transfer her said stock or withdraw the same, without joining the husband in such transfer or withdrawal; and it shall be lawful for any such saving fund, building or loan association to collect such loans made to such married woman, including the dues, interest, premium and fines, as loans made by such associations to other members are now by law collected, and such stock or interest in such stock, shall not be liable for the debts of any husband of such married woman.

SEC. 8. (Relates to taxation on stock and registry.)

SEC. 9. Mutual savings fund or building and loan associations, heretofore incorporated under the provisions of any law shall be entitled to all the privileges, immunities, franchises and powers conferred by this act, and upon filing with the Secretary of the Commonwealth a certificate of their acceptance of the same in writing, under the duly authenticated seal of said association, which certificate shall also prescribe their mode or plan of charging premiums, bonus or advance interest as set forth in the first section of this act; and upon such acceptance and approval thereof by the Governor, he shall issue letters patent to said corporation reciting the same.

SEC. 10. All laws or parts of laws inconsistent with the provisions of the act are hereby repealed.

MINERS' EARNINGS.

As much inquiry has been made concerning the earnings of miners the following statistics, it is believed, will be welcomed by those who are seeking truth on this subject. The most important question is, what can miners earn who are industrious and able to work whenever employment is offered? and which is answered by showing what the most, and the least, skilful have earned during the year 1888.

The mode of collecting the facts may be briefly explained. A blank was prepared asking the operator of each colliery for the monthly earnings of the ten most skilful and industrious miners for the year 1888, employed in his colliery, and also the number of days they worked, and the same facts were sought with respect to the least skilful. Each operator was also asked to state the number of days that his colliery was in operation during the year.

The earnings of those who were sick, or who for other reasons worked irregularly were not collected, as they obviously have no bearing on the question. The question is, what can a miner earn if well, and desirous of working whenever he can get employment? If he is sick, or declines to work when employment is offered to him, his earnings can form no standard for measuring the earnings of those who are well and desirous of working whenever they have the opportunity.

Nevertheless, in many cases, when trying to ascertain the annual and daily earnings, of workmen, the method has been pursued on other occasions to ascertain the whole number employed, regularly and irregularly, and also the aggregate amount paid to them, and then to divide the one product by the other. The result is regarded as the average annual earnings per man. And then to ascertain their average daily earnings the aggregate amount paid is divided by the aggregate number of days worked. This easy method is as faulty in giving a true answer to the question as such an easy method of doing a really difficult thing is likely to be. It is easily seen that if the regular and irregular workmen, the most skilful and the least skilful, are all classed together, the average daily and annual earnings will be much too low to represent fairly the earnings of the most skilful and industrious workmen, and too high to represent fairly the earnings of the least skilful and irregular workmen. By using such a method, therefore, a wrong conception is given of the earnings of all classes.

The following tables include very carefully prepared returns from

seventy-one bituminous collieries, and forty-five anthracite ones. The reason for not giving the returns from a larger number of anthracite collieries is, the operators are fewer in number; and it was not thought needful for those operating a large number of collieries to give returns of all of them, as the same remuneration was paid in all cases for similar work. The returns from both sections are quite enough, it is believed, to serve fairly the purpose of the investigation.

The aggregate earnings of the 710 bituminous coal miners, in 71 collieries, who are classed as the most skilful, representing those who earned the largest amounts in such collieries, were \$394,077.81, or \$465.27 per man. The aggregate earnings of the 450 anthracite coal miners in 45 collieries, who are classed as the most skilful, representing those who earned the largest amounts in such collieries, were \$330,327.80, or \$734.06 per man. The average daily earnings of the former class were \$1.96, and the average days each miner worked was 237.70. The average daily earnings of the anthracite coal miners were \$2.98 per man, and the average number of days each miner worked was 246.17. Several explanations may now be made.

First. These statistics deal with contract miners, who embrace nearly all engaged in mining coal. They are paid by the ton. Occasionally, they will work when the colliery is not in operation, which is the explanation for their working time exceeding that of the colliery.

Second. In the lower anthracite region the months of January and February, 1889, were substituted for the corresponding months of last year, because the miners had stopped to adjust their terms of employment. As they had ceased of their own accord, and not because the operators had closed their collieries, it seemed best to take a continuous year that was as free from strikes as possible. If a miner cannot work steadily through the action of his employer, then he may be justified in ascribing the smallness of his earnings, if they are small, to his employer; but if he does not work in consequence of sickness, disinclination or unwillingness, he cannot charge the smallness of his earnings to the conduct of his employer, so far as time of employment is concerned. Whether the rate paid is what it ought to be is a distinct matter. The question, therefore, asked at the outset, what can a miner earn during the year, might be thus amended, what can he earn if losing no time by striking, sickness or unenforced idleness; and to answer this question correctly, of course the calculation should be made for a year, if possible free from strikes.

Third. It may be asked are the average earnings of the skilful and industrious miners in all the collieries as large as those above given? In other words, can the skilful and industrious miner earn as much usually as those have earned whose earnings are given in these tables? This question can be answered with a considerable degree of exactness by giving a few figures. The average days worked by the most skilful and industrious in the seventy-one bituminous collieries

was 237.70. The average days in all the bituminous collieries operated in 1888 was 203.45; in 1887, 208 52. *

The average days worked by the most skilful and industrious anthracite miners in the forty-five collieries, for which returns are given, was 246.17 days.† The anthracite collieries in operation in 1888 averaged 214.14 days; in 1887, 199.03. Add to the days the collieries were in operation during the years mentioned, the days in which the collieries were not in operation, in consequence of strikes,*† and the annual average doubtless would not be far from the average the collieries were in operation described in the tables. It may be added that, except in a few cases, even the best workmen might have earned more as their time of employment was less than that of the colliery in which they were employed.

Fourth. It may be asked what proportion of the miners in a colliery are skilful and industrious, and who thus receive the highest reward. A superintendent of two collieries had partly made this calculation to answer the question for himself, and his calculation completed as far as practicable by the Bureau, is given in the following table. (For tables see pages B 112-122).

First Mentioned Colliery.

	Number of men.	Aggregate earnings.	Average monthly earnings of	Their average daily earnings.	Average number of days worked.	Average monthly earnings of
September, 1887,	213	\$10,965 24	69 men \$68 60	\$2 86	24	144 men \$43 42
October,	217	11,956 70	81 " 73 52	3 06	24	136 " 44 13
November,	220	11,946 00	75 " 69 06	2 85	24.2	145 " 46 67
December,	233	12,365 31	89 " 70 69	2 85	24.8	144 " 42 18
January, 1888,	211	11,362 35	68 " 68 39	2 71	25.2	143 " 46 87
February,	234	12,116 52	83 " 68 47	2 80	24.4	151 " 42 61
March,	231	12,219 90	89 " 68 20	2 70	25.2	142 " 43 31
April,	230	9,459 90	72 " 54 08	2 84	19	158 " 35 23
May,	230	11,886 40	87 " 70 05	2 97	23½	153 " 40 50
June,	247	10,485 15	94 " 60 08	2 47	24.3	154 " 31 80
July,	230	8,967 70	89 " 52 98	2 42	21.9	141 " 30 16
August,	233	12,789 37	99 " 69 88	2 70	25.8	134 " 43 81

Second Mentioned Colliery.

September, 1887,	319	\$15,819 21	100 men \$71 56	\$2 69	20.6	219 men \$39 56
October,	332	13,956 60	72 " 65 68	2 62	25	260 " 35 49
November,	330	16,480 20	84 " 67 02	2 74	24.4	246 " 44 11
December,	321	16,316 43	88 " 69 24	2 75	25.6	233 " 43 88
January, 1888,	302	16,452 96	82 " 68 85	2 75	25	220 " 49 14
February,	335	15,058 25	82 " 66 64	2 85	23¾	253 " 37 92
March,	333	14,652 00	85 " 66 35	3 08	21½	248 " 36 34
April,	325	14,300 00	85 " 65 15	2 78	23.4	240 " 36 51
May,	325	14,820 00	74 " 69 99	2 80	25	251 " 34 43
June,	325	13,455 00	72 " 64 82	2 59	25	253 " 34 75
July,	290	13,496 60	80 " 69 01	2 84	24.4	210 " 37 98
August,	265	14,813 50	75 " 69 74	2 66	26.6	190 " 50 44

* A general strike in the bituminous region lasted from May 1, 1887, to June 12, 1887, or 35 working days.
† The last strike in the lower anthracite region lasted 57 days, from December 27, 1887, to February 21, 1888; 53 days, therefore, were in 1888.

Fifth. The small earnings in some cases for a large quantity of labor require explanation. Thus on page B 106, the third man in the first section of the table received for twenty-two days in February only \$9.55. The explanation is that he was engaged in preliminary or dead work, as it is called, for which he received no pay, but which under his contract he must perform and was taken into account in fixing his remuneration.

Sixth. The smaller earnings of some of the bituminous coal miners is in consequence of a rule existing in their labor organizations forbidding them to cut more than four tons of coal per day, and as they receive fifty cents per ton for their labor, their earnings are thus limited by their own action to \$2.00 per day. The object of this rule is to distribute employment among a larger number, and shows a sacrificing spirit among the miners. This rule, we believe, is perhaps more effective in the Clearfield region than in any other.

Seventh. The earnings are net, after all deductions for assistance, powder and other expenses. The amount paid for assistance whenever rendered has been carefully ascertained and deducted in every case.

Eighth. Another explanation perhaps ought to be made concerning the variations in the earnings of the more skilled miners. The rates paid are essentially the same, all things considered, as every operator knows that he cannot long play the game successfully of trying to get the better of his competitors by fixing wages at a lower limit, nor is there much, if any, disposition to do this. The ancient plan of getting an advantage over competitors by obtaining it from the workingman in the way of reducing his wages, is not less wise than severe, and is growing in disfavor everywhere. The differences in earnings, therefore, are due to varying skill, strength and application, and also to differences in the coal, location, etc. These are very considerable, as all know, who are acquainted with mines, and vary more or less in the same mine. The differences in the value of the coal will explain many of the variations in earnings; nor is it practicable to equalize all of them by any scale based on the varying condition of mines.

Tables of Individual Earnings of Bituminous and
Anthracite Miners.

Individual Earnings of Bituminous Miners.

COLLIERY.		FIRST MAN.					SECOND MAN.				
		Yearly earnings.	No. of days.	Average days per month.	Average earnings per month.	Average daily earnings.	Yearly earnings.	No. of days.	Average days per month.	Average earnings per month.	Average daily earnings.
No.	1.....	\$575 40	254	20.4	\$47 95	\$2 22	\$689 65	270	22.9	\$57 47	\$2 55
	2.....	635 96	273	22.9	52 96	2 33	604 23	276	23	53 50	2 19
	3.....	573 49	265	22.1	47 79	2 16	490 39	242	20.2	48 60 ¹ / ₂	2 22 ¹ / ₂
	4.....	594 13	268	22.4	49 55	2 22	545 79	268	22.4	45 48	2 34
	5.....	552 49	228	19.10	46 40	2 32	642 12	287	23.11	53 51	2 24
	6.....	485 38	255	21.3	40 45	1 90	477 68	264	22	39 81	1 81
	7.....	525 14	265	22.1	43 76	1 97	486 55	261	21.9	40 54 ¹ / ₂	1 86 ¹ / ₂
	8.....	599 94	230	19.2	49 98 ¹ / ₂	2 64	591 73	221	18.5	49 31	2 72
	9.....	800 62	185	15.5	66 72	4 33	471 40	182	15.2	39 28	2 59
	10.....	1,075 00	286	23.6	89 58	3 75	1,075 00	286	23.6	89 58	3 75
	11.....	781 12	274	22.10	65 09	2 48	735 53	274	22.10	61 29	2 68
	12.....	651 37	274	22.10	54 28	2 37 ¹ / ₂	641 03	272	22.8	53 42	2 35 ¹ / ₂
	13.....	457 75	222	18.6	38 14 ¹ / ₂	2 06	516 45	242	20.2	43 04	2 13
	14.....	683 57	253 ¹ / ₂	21.1	56 96	2 70	627 52	232 ¹ / ₂	19.4	52 20	2 70 ¹ / ₂
	15.....	620 80	246	20.6	51 73	2 52	566 99	223	18.7	47 25	2 54
	16.....	406 00	132 ¹ / ₂	11	34 00	3 00	366 00	114	9.6	30 50	3 21
	17.....	545 40	240	20	45 45	2 27	516 55	234	19.6	43 04 ¹ / ₂	2 22
	18.....	838 40	311	25.11	69 87	2 69 ¹ / ₂	725 54	301	25.1	64 06	2 41
	19.....	573 00	242	20.2	47 75	2 36	675 00	273	22.9	56 25	2 46
	20.....	949 88	267	22.3	79 14	3 56	891 63	266	22.2	74 03	3 35
	21.....	513 27	280	23.4	42 77	1 83 ¹ / ₂	635 17	280	23.4	52 93	2 27
	22.....	750 41	281	23.5	62 53	2 68	720 40	281	23.5	60 03	2 56
	23.....	594 00	218	18.2	49 50	2 72 ¹ / ₂	523 00	220	18.4	43 58	2 38
	24.....	786 00	234	19.6	65 50	3 36	738 00	227	18.11	61 50	3 25
	25.....	555 23	207	17.3	46 27	2 68	449 05	212	17.8	37 42	2 12
	26.....	432 73	172	14.4	36 06	2 52	557 12	196	16.4	46 43	2 84
	27.....	740 15	253	21.1	61 68	2 92 ¹ / ₂	708 87	260	21.8	59 07	2 73
	28.....	772 00	292	24.4	64 33	2 64	775 00	291	24.3	64 58	2 66
	29.....	452 71	230	19.2	37 72 ¹ / ₂	1 97	465 15	223	18.7	38 76	2 09
	30.....	694 00	291	24.3	57 83	2 38 ¹ / ₂	670 00	296	24.8	55 83	2 26
	31.....	528 00	221	18.5	44 00	2 39	510 00	217	18 1	42 50	2 35
	32.....	798 75	204	17	66 56	3 91 ¹ / ₂	665 83	204	17	55 48 ¹ / ₂	3 26
	33.....	790 79	220	18.4	65 90	3 59	766 49	223	18.7	63 87	3 44
	34.....	806 18	215	17.11	67 18	3 75	354 06	182	15.2	46 17	3 04 ¹ / ₂
	35.....	802 39	189	15.9	66 87 ¹ / ₂	4 25	729 59	189	15.9	60 80	3 86
	36.....	600 04	230	19.2	50 00	2 61	591 75	221	18.5	49 31	2 68
	37.....	374 43	175	14.7	31 20	2 14	409 49	176	14.8	34 12 ¹ / ₂	2 33
	38.....	594 36	249	20.9	49 53	2 39	594 71	271	22.7	49 56	2 19 ¹ / ₂
	39.....	599 89	249	20.9	49 99	2 41	591 54	249	20.9	49 29 ¹ / ₂	2 37 ¹ / ₂
	40.....	614 82	272	22.8	51 23 ¹ / ₂	2 26	608 29	272	22.8	50 69	2 24
	41.....	579 84	250	20.10	48 32	2 32	578 36	250	20.10	48 20	2 31
	42.....	599 14	264	22	49 93	2 27	589 18	264	22	49 09	2 23 ¹ / ₂
	43.....	601 35	245	20.5	50 11	2 45 ¹ / ₂	587 29	245	20.5	48 94	2 40
	44.....	477 38	187	15.7	39 78	2 55	454 74	180	15	37 89 ¹ / ₂	2 52 ¹ / ₂
	45.....	494 00	270	22.6	41 17	1 83	496 00	270	22.6	41 33	1 84
	46.....	739 85	241	20.1	61 65	3 07	736 35	241	20.1	61 36	3 05 ¹ / ₂
	47.....	783 74	327	27.3	65 31	2 40	636 22	293	24.5	53 02	2 17 ¹ / ₂
	48.....	452 00	146	12.2	37 67	3 09 ¹ / ₂	393 00	144	12	32 75	2 73
	49.....	803 44	259 ³ / ₄	21.7	66 95	3 10	670 36	259 ³ / ₄	21.7	55 86	2 59
	50.....	385 98	135 ¹ / ₂	11.3	32 16 ¹ / ₂	2 86	483 68	139 ¹ / ₄	11.7	40 31	3 48
	51.....	820 50	307	25.7	68 37 ¹ / ₂	2 67	805 00	307	25.7	67 08	2 62
	52.....	401 71	206	17.2	33 47 ¹ / ₂	1 95	493 23	228 ¹ / ₂	19	41 10	2 16
	53.....	454 89	146	12.2	37 91	3 11 ¹ / ₂	434 10	146	12.2	36 17 ¹ / ₂	2 97
	54.....	697 90	255	21.3	58 16	2 74	758 62	259	21.7	63 22	2 93
	55.....	579 80	250 ¹ / ₂	20.10	48 32	2 32	527 35	244	20.4	43 94 ¹ / ₂	2 16
	56.....	358 41	145	12.1	29 87	2 47	357 87	145	12.1	29 83	2 47
	57.....	767 79	208	17.4	63 98	3 69	698 48	209	17.5	58 21	3 34
	58.....	708 52	250	20.10	59 04	2 83	647 84	250	20.10	53 99	2 59
	59.....	866 28	311	25.11	72 19	2 78 ¹ / ₂	712 51	310	25.10	59 37 ¹ / ₂	2 30
	60.....	397 08	171	14.3	33 09	2 32	430 68	158	13.2	35 89	2 72
	61.....	717 74	261	21.9	59 81	2 75	618 25	258	21.6	51 52	2 40
	62.....	558 58	.....	.....	46 55	.....	523 74	.....	.....	43 64 ¹ / ₂	.....
	63.....	321 08	96	8	26 76	3 34 ¹ / ₂	304 65	95	7.11	25 39	3 20 ¹ / ₂
	64.....	593 04	154	12.10	49 42	3 85	574 90	154	12.10	47 91	3 73
	65.....	715 21	232	19.4	59 60	3 08	507 37	202	16.10	42 28	2 51
	66.....	467 06	172	14.4	38 92	2 71 ¹ / ₂	416 45	173	14.5	34 70 ¹ / ₂	2 41
	67.....	429 10	159	13.5	35 76	2 70	389 82	159	13.3	32 48 ¹ / ₂	2 45
	68.....	532 22	179	14.11	44 35	2 97	613 77	208	17 4	51 15	2 95
	69.....	533 02	263	21.11	44 42	2 03	589 78	295	24.7	49 15	2 00
	70.....	637 28	288	24	53 11	2 21	723 80	268	22.4	60 32	2 70
	71.....	687 79	290	24.2	57 31 ¹ / ₂	2 37	607 28	270	22.6	50 61	2 25

Individual Earnings of Anthracite Miners.

COLLIERY.		FIRST MAN.					SECOND MAN.				
		Yearly earnings.	No. of days.	Average days per month.	Average earnings per month.	Average daily earnings.	Yearly earnings.	No. of days.	Average days per month.	Average earnings per month.	Average daily earnings.
No.	72	\$841 44	251	20.11	\$70 12	\$3 35	\$670 98	252	21	\$55 91½	\$2 66
	73	882 66	230.7	19.2	73 55½	3 84	833 32	233½	19.5	69 44	3 58
	74	825 33	206	17.2	68 78	4 00	909 78	239	19.11	75 81½	3 81
	75	809 03	244.5	20.4	67 42	3 31	731 94	234.7	19.6	90 99½	3 13
	76	838 68	246	20.6	69 89	3 41	834 94	261	21.9	69 58	3 20
	77	1,002 00	213	17.9	83 50	4 70	961 00	213	17.9	80 03	4 51
	78	958 91	230.5	19.2	79 91	4 17	987 07	256.6	21.4	82 25½	3 86
	79	947 44	260.8	21.8	78 95	3 64	933 72	260.7	21.8	77 81	3 59
	80	903 55	248	20 8	75 29½	3 64	721 05	243	20.3	60 09	2 97
	81	986 38	223.3	18.7	82 20	4 42	660 85	220.2	18.4	55 07	3 00
	82	845 89	263	21.11	70 49	3 22	843 94	257	21.5	70 32½	3 28
	83	891 23	242½	20.2	74 27	3 68	923 96	258½	21.6	77 00	3 58
	84	808 54	234	19.6	67 38	3 45½	734 74	239	19.11	61 23	3 07½
	85	688 55	203	17.4	57 38	3 31	729 59	221	18.5	60 80	3 30
	86	963 84	242	20.2	80 32	3 98	824 40	292	24.4	68 70	2 82
	87	721 31	255½	21.3	60 11	2 83	744 28	255½	21.3	62 02	2 92
	88	989 68	252	21	82 47	3 93	929 03	238	19.10	77 42	3 90
	89	747 00	244	20.4	62 25	3 06	565 00	184	15.4	47 08	3 07
	90	989 48	206½	17.2	82 46	4 80	1,030 36	243½	20.3	85 86	4 24
	91	909 37	227	18.11	75 78	4 00½	826 09	273	22.9	68 84	3 02½
	92	915 22	290	24.2	76 27	3 16	909 51	277	23.1	75 79	3 29
	93	815 02	245½	20.5	67 92	3 33	814 99	245½	20.5	67 91½	3 33
	94	752 99	277	23.1	62 75	2 72	752 99	277	23.1	62 75	2 72
	95	928 37	246	20.6	77 36	3 77	949 26	269	22.5	79 10½	3 53
	96	754 03	272	22.8	62 83½	2 77	754 03	272	22.8	62 83½	2 74
	97	710 00	265.5	22.1	59 17	2 68	705 00	265.5	22.1	58 75	2 66
	98	698 83	262	21.10	58 23½	2 67	657 68	243	20.3	54 81	2 71
	99	579 05	227.5	18.11	48 25	2 55	557 81	220½	18.4	46 48	2 53½
	100	1,066 83	277	23.1	88 90	3 85	1,000 17	277	23.1	83 35	3 61
	101	521 98	181½	15.1	43 50	2 88	480 09	169	14.1	40 00	2 84
	102	1,068 63	254½	21.2	89 05	4 21	974 47	254½	21.2	81 20½	3 84
	103	1,327 52	226½	18.10	110 63	5 87	1,056 59	222½	18.6	88 05	4 76
	104	1,025 19	28½	24	85 43	3 56	864 94	267.5	22.3	72 08	3 24
	105	621 06	265	22.1	51 75½	2 34	603 57	264	22	50 30	2 29
	106	885 00	221	18.5	73 75	4 00½	878 00	221	18.5	73 17	3 97½
	107	1,171 43	244.9	20.4	97 62	4 80	1,017 05	253.1	21.1	84 75	4 02
	108	603 98	211	17.7	50 75	2 39	600 38	196	16.4	50 03	3 06
	109	938 00	197	16.5	78 17	4 76	930 75	197	16.5	77 56	4 72½
	110	1,161 63	283	23.7	96 80	4 10½	758 76	288	24	63 23	2 63½
	111	915 79	281	23.5	76 31	3 25	786 01	270	22.6	65 50	2 91
	112	544 86	214½	17.10	45 40½	2 54	498 44	214½	17.10	41 54	2 33
	113	614 00	210.7	17.6	51 17	2 92	604 00	210.7	17.6	50 33	2 88
	114	776 78	.....	.....	64 73	.....	803 36	.....	.....	66 95	.....
	115	1,092 83	247.7	20.7	91 07	4 42½	1,012 15	247.7	20.7	84 34½	4 10
	116	679 39	.....	.....	56 61½	.....	527 67	.....	.....	43 97	.....

The fractions in the column of "Average days per month" are "twelfths."

Individual Earnings of Bituminous Miners.—Continued.

COLLIERY.		THIRD MAN.					FOURTH MAN.				
		Yearly earnings.	No. of days.	Average days per month.	Average earnings per month.	Average daily earnings.	Yearly earnings.	No. of days.	Average days per month.	Average earnings per month.	Average daily earnings.
No.	1.	\$675 73	270	22.6	\$56 31	\$2 50	\$599 03	246	20.6	\$49 92	\$2 43
	2.	534 66	250	20.10	44 55	2 13	541 79	254	21.2	45 14	2 13½
	3.	451 75	242	20.2	37 64	1 86	468 92	260	21.8	39 70	1 80
	4.	510 40	250	20.10	42 53	2 40	537 66	265	22.1	44 60	2 20
	5.	605 05	230	19.2	54 20	2 63	741 96	236	19.8	61 83	3 14
	6.	435 78	243	20.3	36 31	1 80	441 50	253	21.1	37 00	1 74
	7.	594 06	247	20.7	49 50½	2 40½	596 43	248	20.8	49 70	2 40
	8.	567 21	198	16.6	48 02	2 86	529 46	223	18.7	44 12	2 37
	9.	443 39	181	15.1	36 94	2 45	379 97	175	14.7	31 66	2 17
	10.	1,047 00	286	23.6	87 25	3 69	1,034 00	282	23.6	86 18	3 66
	11.	678 49	275	22.11	56 54	2 48	644 32	263	21.11	53 69	2 45
	12.	632 28	275	22.11	52 69	2 30	640 59	273	22.9	53 38	2 34½
	13.	461 79	246	20.6	38 48	1 88	598 29	269	22.5	49 85	2 23
	14.	625 60	248½	20.8	51 13	2 52	639 17	250	20.10	53 26½	2 55½
	15.	641 83	249	20.9	53 48½	2 57½	647 33	262	21.10	53 94½	2 47
	16.	463 00	153	12.9	38 58	3 00	406 00	137	11.5	33 83	2 23
	17.	525 15	237	19.9	43 76	2 21	544 40	191	15.11	45 37	2 85
	18.	660 19	296	24.8	55 01½	2 23	639 00	313½	26.1	53 25	2 00
	19.	618 00	259	21.7	51 50	2 39	691 00	271	22.7	57 58	2 55
	20.	881 74	263	21.11	73 48	3 35	694 33	227	18.11	57 86	3 06
	21.	533 81	278	23.2	44 48	1 92	535 88	263	21.11	44 66	2 01
	22.	719 66	276	23	59 97	2 61	843 95	281	23.5	70 33	3 01
	23.	517 00	225	18.9	43 08	2 30	512 00	215	17.11	42 67	2 38
	24.	642 00	217	18.1	53 50	2 95	524 00	205	17.1	43 67	2 55½
	25.	492 14	232	19.4	41 01	2 12	509 90	222	18.6	42 49	2 30
	26.	512 68	177	14.9	42 72	2 90	489 24	199	16.7	40 77	2 46
	27.	684 55	259	21.7	57 04½	2 64	506 32	237	19.9	42 19	2 14
	28.	504 35	265	22.1	42 03	1 52	436 51	267	22.3	36 37½	1 63½
	29.	521 26	219	18.3	43 44	2 38	501 60	214	17.10	41 80	2 34
	30.	625 00	289	24.1	52 08	2 17	665 00	300	25	55 42	2 22
	31.	464 00	207	17.3	38 67	2 24½	467 00	223	18.7	38.92	2 09½
	32.	493 41	204	17	41 12	2 42	630 79	204	17	52 56½	3 09
	33.	741 41	227	18.11	61 78	3 26½	751 99	223	18.7	62 66½	3 37
	34.	912 11	213	17.9	76 01	4 28	902 41	213	17.9	75 20	4 24½
	35.	696 50	189	15.9	58 04	3 68½	673 10	189	15.9	56 00	3 56
	36.	567 43	198	16.6	47 28½	2 86	529 43	223	18.7	44 12	2 37
	37.	548 24	200	16.8	45 69	2 74	561 97	194	16.2	46 83	2 10
	38.	634 06	271	22.7	52 84	2 34	605 04	281	23.5	50 42	2 15
	39.	574 62	249	20.9	47 88½	2 31	563 01	249	20.9	46 92	2 26
	40.	596 03	272	22.8	49 67	2 19	586 21	272	22.8	48 85	2 15½
	41.	589 70	250	20.10	49 14	2 36	571 94	250	20.10	47 66	2 29
	42.	581 96	264	22	48 50	2 20	571 26	264	22	47 60½	2 16½
	43.	576 00	245	20.5	48 00	2 35	556 28	245	20.5	46 36	2 27
	44.	396 00	168	14	33 00	2 36	386 00	189	15.9	32 17	2 04
	45.	464 00	260	21.8	38 67	1 78½	469 00	261	21.9	39 08	1 80
	46.	644 52	241	20.1	53 71	2 67½	641 68	241	20.1	53 47	2 66
	47.	694 22	314	26.2	57 85	2 21	692 48	295	24.7	57 71	2 35
	48.	369 00	154	12.10	30 75	2 39½	369 00	147	12.3	30 75	2 51
	49.	716 14	259½	21.7	59 68	2 76½	710 35	259½	21.7	59 19½	2 74
	50.	465 28	140½	11.8	38.77	3 32	366 24	128½	10.8	30 52	2 86
	51.	791 00	307	25.7	65 92	2 58	775 00	307	25.7	64 58	2 52
	52.	434 96	232½	19.4	36 25	1 87½	470 03	257½	21.5	39 17	1 83
	53.	413 98	146	12.2	34 50	2 83½	386 89	146	12.2	32 24	2 65
	54.	649 56	230	19.2	54 13	2 82	749 95	236½	19.8	62 49½	3 18
	55.	543 47	241½	20.1	45 29	2 25½	492 80	227½	18.11	41 07	2 17
	56.	366 75	147	12.3	30 56	2 49½	363 31	147	12.3	30 52½	2 49
	57.	686 56	213	17.9	57 21	3 22	688 92	214	17.10	57 41	3 22
	58.	620 26	250	12.10	51 69	2 48	577 15	250	20.10	48 09½	2 31
	59.	652 98	310	25.10	54 41½	2 11	604 76	303	25.8	50 40	1 96
	60.	394 44	166	13.10	32 87	2 38	690 77	181	15.1	57 56	3 81
	61.	563 06	253	21.1	46 92	2 22½	508 31	251	20.11	42 36	2 02½
	62.	637 56	.....	.....	53 13	.....	654 04	.....	.....	54 50	.....
	63.	296 28	97	8.1	24 69	3 05½	286 60	97	8.1	23 88	2 95½
	64.	552 03	139	11.7	46 00	3 97	567 53	148½	12.4	47 30	3 83½
	65.	511 87	236	19.8	42 65½	2 17	475 28	210	20	39 61	1 98
	66.	470 98	174	14.6	39 25	2 70½	515 89	171	14.3	42 99	3 03
	67.	367 65	158	13.2	30 64	2 33	341 33	158	13.2	28 44	2 16
	68.	482 21	185	15.5	40 18	2 60½	450 01	175	14.7	37 50	2 57
	69.	589 48	289	24.1	49 12	2 04	599 88	295	24.7	49 99	2 03
	70.	582 30	270	22.6	48 52½	2 16	436 90	259	21.7	36 41	1 69
	71.	568 31	273	22.9	47 36	2 08	558 72	293	24.5	46 56	1 91

Individual Earnings of Anthracite Miners.—Continued.

COLLIERY.		THIRD MAN.					FOURTH MAN.				
		Yearly earnings.	No. of days.	Average days per month.	Average earnings per month.	Average daily earnings.	Yearly earnings.	No. of days.	Average days per month.	Average earnings per month.	Average daily earnings.
No.											
72.	.....	\$701 53	249	20.9	\$58 46	\$2 82	\$530 97	244	19.6	\$44 25	\$2 27
73.	.....	782 07	217.4	18.1	65 17	3 60	781 57	232.3	19.4	65 13	3 37
74.	.....	832 20	237	19.9	69 35	3 51	777 70	227	18.11	64 81	3 43
75.	.....	710 45	229	19.1	59 20	3 10	731 84	235.8	19.7	60 99	3 11
76.	.....	787 43	252½	21	65 62	3 13	762 25	242	20.2	63 52	3 15
77.	.....	871 00	213	17.9	72 58	4 09	783 00	213	17.9	65 25	3 67½
78.	.....	869 87	230.5	19.2	72 49	3 78	955 98	256.6	21.4	79 66½	3 73
79.	.....	927 12	260.8	21.8	77 26	3 56	882 45	260.8	21.8	73 54	3 39
80.	.....	708 71	240	20	59 06	2 95	708 20	260	21.8	59 02	2 72
81.	.....	787 21	250.8	20.10	65 60	3 15	755 00	212.1	17.8	62 92	3 56
82.	.....	829 80	258	21.6	69 15	3 21	825 86	257	21.5	68 82	3 21
83.	.....	840 65	249½	20.9	70 05	3 38	868 40	231½	19.3	72 37	3 75½
84.	.....	691 32	243	20.3	57 61	2 84½	658 76	242	20.2	54 90	2 72
85.	.....	780 60	232	19.4	65 05	3 37	790 39	241	20.1	65 86½	3 28
86.	.....	815 17	269	22.5	67 93	3 03	798 98	276	23	66 58	2 89½
87.	.....	767 38	265	22.1	63 95	2 89	735 40	265	22.1	61 28	2 77½
88.	.....	851 02	230	19.2	70 92	3 70	826 38	220	18.4	68 86½	3 76
89.	.....	704 00	250	20.10	58 67	2 81½	684 00	246	20.6	57 00	2 78
90.	.....	896 01	242½	20.2	74 67	3 70	829 61	23½	19.11	69 13	3 47
91.	.....	720 72	276	23	60 06	2 61	709 07	283	23.7	59 09	2 50½
92.	.....	899 39	291	24.3	74 95	3 09	821 08	274	22.10	68 42	3 00
93.	.....	836 53	246½	20.6	69 71	3 40	836 45	246½	20.6	69 70	3 40
94.	.....	752 99	277	23.1	62 75	2 72	752 99	277	23.1	62 75	2 72
95.	.....	801 27	238	19.10	66 77	3 37	780 09	242	20.2	65 00	3 22
96.	.....	696 33	238	19.10	58 03	2 92½	585 96	195	16.3	48 83	3 00½
97.	.....	700 00	265.5	22.1	58 33	2 64	721 00	265.5	22.1	60 03	2 72
98.	.....	632 07	239	19.11	52 67	2 64½	612 93	250	20.10	51 08	2 45
99.	.....	552 32	221½	18.5	46 03	2 50	544 51	219	18.8	45 37½	2 49
100.	.....	819 40	245	20.5	68 28	3 34½	724 08	243	20.3	60 34	2 98
101.	.....	519 36	185	15.5	43 28	2 80½	526 98	185½	15.5	43 91½	2 85
102.	.....	928 33	254½	21.2	77 36	3 65½	874 37	254½	21.2	72 86	3 44
103.	.....	881 95	222½	18.6	73 49½	3 98	862 46	224½	18.8	71 87	3 85
104.	.....	832 93	264½	22	69 41	3 15½	782 50	249½	20.9	65 21	3 14
105.	.....	587 52	262	21.10	48 96	2 24	533 98	249	20.9	44 50	2 14½
106.	.....	867 00	221	18.5	72 25	3 92	856 00	221	18.5	71 33	3 87
107.	.....	839 96	235	19.7	70 00	3 57½	879 80	237.8	19.9	73 32	3 71
108.	.....	602 10	209	17.5	50 17½	2 88	587 99	198	16.6	49 00	2 97
109.	.....	844 00	197	16.5	70 33	4 28	741 00	197	16.5	61 75	3 76
110.	.....	749 71	280	23.4	62 47½	2 68	734 08	275	22.11	61 17	2 67
111.	.....	791 74	280	23.4	65 98	2 83	747 92	264	22	62 33	2 83
112.	.....	462 26	214½	17.10	38 52	2 16	450 37	214½	17.10	37 53	2 10
113.	.....	585 00	210.7	17.6	48 75	2 78½	570 00	210.7	17.6	47 50	2 71
114.	.....	709 08	.....	.....	59 09	.....	678 93	.....	.....	56 58	.....
115.	.....	878 08	247.7	20.7	73 00	3 54½	1,087 16	247.7	20.7	90 60	4 40
116.	.....	592 97	.....	.....	49 41	.....	579 03	.....	.....	48 25	.....

Individual Earnings of Bituminous Miners.—Continued.

COLLIERY.	FIFTH MAN.					SIXTH MAN.				
	Yearly earnings.	No. of days.	Average days per month.	Average earnings per month.	Average daily earnings.	Yearly earnings.	No. of days.	Average days per month.	Average earnings per month.	Average daily earnings.
No. 1,.....	\$580 34	274	22.10	\$18 36	\$2 12	\$664 68	268	22.4	\$55 30	\$2 48½
2,.....	602 35	274	22.10	51 90	2 20	557 21	273	22.9	46 43½	2 40
3,.....	500 96	262	21.10	41 75	1 91	559 33	271	22.7	46 61	2 60½
4,.....	538 30	267	22.3	44 86	2 10	522 04	259	21.7	43 50	2 11
5,.....	716 63	244	20.4	59 72	2 93½	605 76	240	20	50 48	2 53
6,.....	443 83	257	21.5	36 98½	1 73	462 74	260	21.8	38 56	1 78
7,.....	474 95	257	21.7	39 55	1 82½	553 03	250	20.10	46 80½	2 21
8,.....	527 11	231	19.3	43 92½	2 28	526 36	207	17.3	43 86	2 54
9,.....	364 24	178	14.10	30 36	2 01½	362 36	174	14.6	30 20	2 08
10,.....	781 00	198	16.6	65 00	3 01	769 00	198	16.6	64 00	3 01
11,.....	769 03	278	23.2	55 75	2 41	635 03	270	22.6	52 93	2 35
12,.....	619 66	270	22.6	51 64	2 25	614 28	274	22.10	51 19	2 24
13,.....	386 00	238	19.10	32 16	1 62	462 93	213	17.9	38 58	2 17
14,.....	613 92	237½	19.9	51 16	2 55	651 37	254	21.2	54 28	2 56½
15,.....	401 26	182	15.2	33 69	2 22	612 47	276	23	54 37	2 37
16,.....	485 00	164	13.8	40 50	2 96	496 00	162½	13.6	41 00	3 00
17,.....	506 50	229	19.1	42 21	2 21	535 90	226	18.10	44 66	2 37
18,.....	622 94	358	29.10	51 91	1 74	622 92	358	29.10	51 91	1 74
19,.....	684 00	268	22.4	57 00	2 54	660 00	269	22.5	55 00	2 45½
20,.....	774 60	250	20.10	64 55½	3 10	795 72	250	20.10	66 31	3 14
21,.....	503 09	248	20.8	41 92	2 03	552 32	264	22	46 04	2 09
22,.....	634 89	281	23.5	52 10	2 26	629 71	281	23	52 47½	2 24
23,.....	511 00	203	16.11	42 58	2 52	497 00	222	18.6	41 42	2 24
24,.....	462 00	235	19.7	38 50	1 96	458 00	234	19.6	38 17	1 95½
25,.....	576 46	217	18.1	48 04	2 65½	473 14	199	16.7	39 43	2 37
26,.....	482 15	198	16.6	40 19	2 43½	547 03	202	16.10	45 59	2 71
27,.....	352 50	217	13.1	29 37½	1 62½	505 69	233	19.5	42 14	2 17
28,.....	398 94	253	21.1	33 24½	1 58	425 14	251	20.11	35 43	1 69
29,.....	481 35	204	17	40 11	2 36	569 98	242	20.2	47 50	2 35½
30,.....	668 00	296	24.8	55 67	2 25	671 00	300	25	55 92	2 24
31,.....	451 00	221	18.5	37 58	2 04	433 07	214	17.10	36 08	2 02
32,.....	688 98	204	17	57 41½	3 38	777 38	204	17	64 78½	3 81
33,.....	761 65	226	18.10	63 47	3 37	727 37	220	18.4	60 61	3 30½
34,.....	885 56	212	17.8	73 79	4 18	720 50	233	19.5	60 04	3 09
35,.....	664 57	189	15.9	55 38	3 51	565 72	189	15.9	47 14	2 99
36,.....	527 11	231	19.3	43 92½	2 28	526 36	204	17	43 86	2 58
37,.....	482 92	175	14.9	40 24	2 76	534 61	181	15.1	44 55	2 95
38,.....	657 98	278	23.2	54 83	2 36	561 48	267	22.3	46 79	2 01
39,.....	554 34	249	20.9	46 19½	2 22½	547 32	249	20.9	45 61	2 20
40,.....	571 50	272	22.8	47 62½	2 10	558 32	272	22.8	46 53	2 05
41,.....	594 46	250	20.10	49 54	2 38	562 88	250	20.10	46 91	2 25
42,.....	559 33	264	22	46 61	2 12	553 50	264	22	46 12½	2 10
43,.....	548 21	245	20.5	45 68	2 24	537 17	245	20.5	44 76	2 19
44,.....	414 00	189	15.9	34 50	2 19	390 00	186	15.6	32 50	2 10
45,.....	400 00	215	20.5	33 33	1 63	415 00	245	20.5	34 58	1 69½
46,.....	726 38	241	20.1	60 53	3 01	707 55	241	20.1	58 96	2 93½
47,.....	736 72	318	26.6	61 39	2 31	672 98	314	26.2	56 08	2 14
48,.....	332 00	147	12.3	27 66	2 25½	306 00	150	12.6	25 50	2 04
49,.....	124 32	259¾	21.7	93 69	4 34	723 75	259¾	21.7	60 31	2 79
50,.....	279 39	113¼	9.5	23 28	2 47	369 23	135½	11.3	30 77	2 73½
51,.....	763 00	307	25.7	63 58	2 48½	751 00	307	25.7	62 58	2 44
52,.....	385 26	223	18.7	32 10½	1 73	279 84	183	15.3	23 32	1 53
53,.....	379 32	146	12.2	32 61	2 60	361 33	146	12.2	30 11	2 47½
54,.....	795 77	255	21.3	66 31	3 12	651 20	245	20.5	54 27	2 66
55,.....	569 74	202	16.10	47 48	2 82	582 91	154	12.10	48 57½	3 78½
56,.....	300 34	144	12	31 69½	2 64	369 09	144	12	30 76	2 56
57,.....	667 06	212	17.8	55 59	3 15	613 03	216	18	51 08½	2 84
58,.....	566 43	250	20.10	47 20	2 26½	550 87	250	20.10	45 90½	2 20
59,.....	574 49	307	25.7	47 87	1 87	551 85	304	25.4	45 99	1 81½
60,.....	459 03	173	14.5	38 25	2 65	499 18	184	15.4	41 60	2 71
61,.....	438 54	235	19.7	36 54½	1 86½	391 37	224	18.8	32 61	1 75
62,.....	703 17	.....	.....	58 60	.....	705 47	.....	.....	58 79	.....
63,.....	283 47	97	8.1	23 62	2 92	282 45	96	8	23 54	2 94
64,.....	599 48	152	12.8	49 96	3 94	594 79	152	12 8	49 56½	3 91
65,.....	473 62	185	15.5	39 47	2 56	440 94	177	14.9	36 74½	2 50
66,.....	484 67	171	14.3	40 39	2 83½	458 07	173	14.5	38 17	2 65
67,.....	334 27	159	13.3	27 85½	2 10	339 39	158	13.2	28 28	2 15
68,.....	477 36	193	16.1	39 78	2 47	500 43	183	15.3	41 70	2 73½
69,.....	573 46	278	23.2	47 79	2 06	570 50	286	23.10	47 54	1 99½
70,.....	581 31	269	22.5	48 44	2 16	614 91	280	23.4	51 24	2 20
71,.....	550 20	295	24.7	45 85	1 86½	540 06	293	24.5	45 00½	1 84

Individual Earnings of Anthracite Miners.—Continued.

COLLIERY.	FIFTH MAN.					SIXTH MAN.				
	Yearly earnings.	No. of days.	Average days per month.	Average earnings per month.	Average daily earnings.	Yearly earnings.	No. of days.	Average days per month.	Average earnings per month.	Average daily earnings.
No. 72.....	\$332 38	250	20.10	\$69 36 $\frac{1}{2}$	\$3 33	\$325 82	250	20.10	\$52 15	\$2 50
73.....	772 75	243.8	20.3	64 39 $\frac{1}{2}$	3 18	702 15	212.3	18.6	59 01	3 19
74.....	646 38	190	15.10	53 86 $\frac{1}{2}$	3 40	726 08	214	17.10	60 51	3 39
75.....	766 96	248.5	20.8	63 91	3 09	677 27	221.9	18.5	56 44	3 06 $\frac{1}{2}$
76.....	711 00	236	19.8	59 25	3 01	738 87	254	21.2	61 57	2 91
77.....	729 00	213	17.9	60 75	3 42	687 00	213	17.9	57 25	3 22 $\frac{1}{2}$
78.....	846 04	230.5	19.2	70 50	3 68	831 56	230.5	19.2	69 30	3 61 $\frac{1}{2}$
79.....	838 32	260.8	21.8	69 86	3 22	775 26	260.8	21.8	64 60 $\frac{1}{2}$	2 98
80.....	694 34	245	20.5	57 86	2 83	666 18	241	20.1	55 51 $\frac{1}{2}$	2 76 $\frac{1}{2}$
81.....	727 18	235.7	19.7	60 60	3 09	855 75	268	22.4	71 31	3 19
82.....	789 86	240 $\frac{1}{2}$	20	65 82	3 29	766 20	266	22.2	63 85	2 88
83.....	899 03	237	19.9	74 92	3 79	936 09	243 $\frac{1}{2}$	20.3	78 01	3 85
84.....	640 86	244	20.4	53 40 $\frac{1}{2}$	2 63	617 83	247	20.7	51 49 $\frac{1}{2}$	2 50
85.....	808 47	235	19.7	67 37	3 44	839 59	247	20.7	69 96 $\frac{1}{2}$	3 40
86.....	759 44	285	23.9	63 29	2 66	755 82	286	23.10	62 98 $\frac{1}{2}$	2 64
87.....	731 03	259 $\frac{1}{4}$	21.7	60 92	2 82	792 60	257 $\frac{1}{4}$	21.5	96 05	3 03
88.....	820 74	227	18.9	68 39 $\frac{1}{2}$	3 61 $\frac{1}{2}$	806 92	238	19.10	67 24	3 39
89.....	649 00	238	19.10	54 08	2 73	665 00	253	21.1	55 42	2 63
90.....	746 32	242	20.2	66 36	3 29	1 128 95	235	19.7	94 08	4 80
91.....	698 62	275	22.11	58 22	2 54	670 73	292	24.4	55 89	2 30
92.....	803 24	270	22.6	66 94	2 97 $\frac{1}{2}$	766 00	294	24.6	63 83	2 61
93.....	853 57	246 $\frac{1}{2}$	20.6	71 13	3 47	814 60	246 $\frac{1}{2}$	20.6	67 88	3 31
94.....	752 99	277	23.1	62 75	2 72	613 98	263	21.11	51 16 $\frac{1}{2}$	2 33 $\frac{1}{2}$
95.....	774 59	243	20.3	64 55	3 19	698 00	228	19	58 17	3 06
96.....	801 16	273	22.9	66 76	2 94	707 94	265	22.1	58 99 $\frac{1}{2}$	2 67
97.....	733 00	265.5	22.1	61 08	2 77	720 00	265.5	22.1	60 00	2 72
98.....	579 15	196	16.4	48 26	2 95 $\frac{1}{2}$	565 13	235	19.7	47 09	2 40 $\frac{1}{2}$
99.....	539 19	217	18.1	44 93	2 48 $\frac{1}{2}$	497 02	214.5	17.10	41 42	2 32
100.....	953 88	249	20.9	79 49	3 83	928 86	260	21.8	77 40 $\frac{1}{2}$	3 57
101.....	512 38	173 $\frac{3}{4}$	14.5	42 70	2 96	516 71	186	15.6	43 06	2 78
102.....	849 06	254 $\frac{1}{4}$	21.2	70 75 $\frac{1}{2}$	3 34	827 98	254 $\frac{1}{4}$	21.2	69 00	3 26
103.....	838 09	225	18.9	69 84	3 72 $\frac{1}{2}$	724 27	225 $\frac{1}{4}$	18.9	60 02	3 22
104.....	782 27	257 $\frac{1}{4}$	21.5	65 19	3 04	806 31	266 $\frac{1}{4}$	22.2	67 19	3 03
105.....	516 35	252	21	43 03	2 05	515 24	203	16.11	42 94	2 54
106.....	851 00	221	18.5	70 92	3 85	832 00	221	18.5	69 33	3 76 $\frac{1}{2}$
107.....	837 35	244.2	20.4	69 78	3 43	555 38	167.2	13.11	46 28	3 32 $\frac{1}{2}$
108.....	560 66	196	16.4	46 72	2 86	569 97	197	16.5	47 50	2 89
109.....	826 00	197	16.5	68 83	4 20	788 00	197	16.5	65 67	4 00
110.....	687 63	279	23.3	57 30	2 46 $\frac{1}{2}$	631 95	271	22.7	52 66	2 33
111.....	747 18	268	22.4	62 26 $\frac{1}{2}$	2 79	740 59	279	23.3	61 71 $\frac{1}{2}$	2 65
112.....	443 78	214 $\frac{1}{2}$	17.10	36 98	2 07	437 16	214 $\frac{1}{2}$	17.10	36 43	2 04
113.....	561 00	210.7	17.6	46 75	2 67	548 00	210.7	17.6	45 66	2 61
114.....	799 79	.....	.....	66 65	.....	640 59	.....	.....	53 38	.....
115.....	961 50	247.7	20.7	80 12 $\frac{1}{2}$	3 89	879 45	247.7	20.7	73 29	3 56
116.....	565 80	.....	.....	47 15	.....	572 11	.....	.....	47 67 $\frac{1}{2}$	.....

Individual Earnings of Bituminous Miners.—Continued.

COLLIERY.		SEVENTH MAN.					EIGHTH MAN.				
		Yearly earnings.	No. of days.	Average days per month.	Average earnings per month.	Average daily earnings.	Yearly earnings.	No. of days.	Average days per month.	Average earnings per month.	Average daily earnings.
No.	1.	\$557 79	259	21.7	\$46 48	\$2 16	\$545 02	270	22.6	\$45 42	\$2 06
	2.	558 65	277	23.1	46 55	2 01½	528 95	275	22.11	44 80	1 93
	3.	525 30	275	22.11	43 76	1 91½	629 28	277	23.1	52 44	2 27
	4.	550 47	278	23.2	45 87	1 91	536 84	270	22.6	44 74	1 99
	5.	612 11	228	19	53 51	2 82	559 90	228	19	46 66	2 45½
	6.	374 24	228	19	31 19	1 64	429 70	260	21.8	35 81	1 65
	7.	552 37	265	22.1	46 03	2 80½	576 28	252	21	48 02	2 28½
	8.	311 47	199	16.7	25 95½	1 56½	398 63	192	16	33 22	2 08
	9.	345 34	180	15	28 77	1 92	349 68	174	14.6	29 14	2 01
	10.	762 00	194	16.2	63 66	3 92	756 00	198	16.6	63 00	3 81
	11.	625 87	269	22.5	52 15½	2 25	628 18	270	22.6	52 35	2 32½
	12.	613 66	273	22.9	51 14	2 25	612 84	274	22.10	51 07	2 24
	13.	620 60	263	21.11	51 71	2 36	449 06	229	19.1	37 42	1 96
	14.	672 35	258½	21.6	56 53	2 40	611 97	250	19.2	59 10	2 66
	15.	651 43	261	21.9	54 28½	2 50	558 05	224	18.8	46 05½	2 49
	16.	564 00	161	13.5	47 00	3 50	502 00	159½	13.3	41 83	3 00
	17.	5 9 05	231	19.3	44.09	2 29	456 65	233	19.5	38 05½	1 96
	18.	622 94	358	29.10	51 91	1 74	621 60	296	24.8	51 80	2 90
	19.	675 00	273	23.7	56 25	2 47	663 00	266	22.2	55 25	2 49
	20.	792 53	250	20.10	66 04	3 17	805 23	252	21.10	67 10	3 07
	21.	597 69	266	22.2	49 81	2 25	503 01	240	20	41 92	2 09½
	22.	560 00	281	23.5	46 67	2 00	606 76	281	23.5	50 56	2 16
	23.	482 00	206	17.2	40 17	2 34	480 00	228	19	40 00	2 10½
	24.	441 00	223	18.7	36 75	1 98	431 00	221	18.5	35 92	1 95
	25.	580 57	219	18.3	48 38	2 65	520 09	227	18.11	43 34	2 29
	26.	504 75	201	16.9	42 03	2 51	485 27	198	16.6	40 44	2 45
	27.	414 92	244	20.4	34 58	1 70	484 94	231	19.3	40 41	2 10
	28.	249 85	151	12.7	20 82	1 65½	395 31	231	19.3	32 94	1 71
	29.	539 71	239½	20	44 97½	2 26	564 88	283½	19.5	47 07	2 42½
	30.	661 00	300	25	55 08	2 20	640 00	296	24.8	53 33	2 16
	31.	280 00	141	11.9	23 33	1 98	281 00	140	11.8	23 42	2 00½
	32.	676 45	204	17	56 37	3 31½	862 86	204	17	71 90½	4 23
	33.	722 69	222	18.6	60 22	3 25½	712 56	223	18.7	59 38	3 19½
	34.	665 94	212	17.8	55 49½	3 14	867 90	227	19	72 32½	3 82
	35.	535 07	189	15.9	44 59	2 83	520 59	189	15.9	43 38	2 75½
	36.	487 93	206	17.2	40 66	2 37	398 60	199	16.7	33 22	2 00
	37.	424 68	193	16.1	35 39	2 20	539 67	188	15.8	44 97	2 87
	38.	575 06	277	23.1	47 92	2 08	557 18	266	22.2	46 43	2 09½
	39.	539 26	249	20.9	44 94	2 16½	528 39	249	20.9	44 03	2 12
	40.	551 07	272	22.8	45 92½	2 05	538 78	272	22.8	44 90	1 98
	41.	561 04	250	20.10	46 75	2 24	572 99	250	20.10	47 75	2 29
	42.	543 05	264	22	45 25	2 06	538 47	264	22	44 87	2 04
	43.	530 24	245	20.5	44 19	2 16½	523 59	245	20.5	43 63	2 14
	44.	381 00	177	14.9	31 75	2 15	342 00	177	14.9	28 50	1 93
	45.	471 00	264	22	39 25	1 78	464 00	264	22	38 67	1 76
	46.	691 00	241	20.1	57 58	2 87	676 39	241	20.1	56 36½	2 81
	47.	603 98	292	24.4	50 33	2 07	624 74	294	24.6	52 06	2 12½
	48.	305 00	149	12.5	25 42	2 05	297 00	148	12.4	24 75	2 01
	49.	741 73	259½	21.7	61 81	2 86	713 47	259½	21.7	59 45½	2 75½
	50.	354 45	138	11.6	29 44	2 57	334 44	123½	10.3	27 87	2 72
	51.	731 00	307	25.7	60 92	2 38	718 00	307	25.7	59 83	2 34
	52.	428 92	199	16.7	35 74	2 15½	404 32	200	16.8	33 69	2 02
	53.	350 00	146	12.2	29 17	2 40	340 37	146	12.2	28 36	2 33
	54.	730 07	226	18.10	60 84	3 23	715 85	236	19.8	59 65	3 03
	55.	533 94	184	15.4	44 49½	2 90	638 94	191	15.11	53 24½	3 34
	56.	370 98	151	12.7	30 91½	2 46	369 88	151	12.7	30 82	2 45
	57.	475 60	213	17.9	39 63	2 23	446 00	210	17.6	37 17	2 12
	58.	522 51	250	20.10	43 54	2 03	512 69	250	20.10	42 72	2 05
	59.	539 33	204	25.4	44 94	1 77	524 82	299	24.11	43 73½	1 75½
	60.	443 41	167	13.11	36 95	2 65½	409 26	166	13.10	34 10½	2 46½
	61.	361 07	201	16.9	30 09	1 79½	328 38	209	17.5	27 36	1 57
	62.	655 26	.....	.....	54 60½	.....	694 92	.....	.....	57 91	.....
	63.	275 49	94	7.10	22 96	2 93	273 50	97	8.1	22 79	2 82
	64.	530 96	140½	11.8	44 25	3 79	594 43	151½	12.7	49 53½	3 94
	65.	459 63	205	17.1	38 30	2 24	414 57	170	14.2	34 55	2 43
	66.	501 74	167	13.11	41 81	3 00½	511 24	170	14.2	42 60	3 30
	67.	313 36	159	13.3	26 11	1 97	318 59	158	13.2	26 55	2 02
	68.	465 23	209	17.5	38 77	2 22½	454 96	202	16.10	37 91	2 25
	69.	531 85	273	22.9	44 32	1 95	596 09	283	23.7	49.68	2 02
	70.	617 48	280	23.4	51 46	2 21	579 66	275	22.11	47 74	2 11
	71.	516 57	295	24.7	43 95	1 75½	516 46	295	24.7	43 04	1 75

Individual Earnings of Anthracite Miners.—Continued.

COLLIERY.	SEVENTH MAN.					EIGHTH MAN.				
	Yearly earnings.	No. of days.	Average days per month.	Average earnings per month.	Average daily earnings.	Yearly earnings.	No. of days.	Average days per month.	Average earnings per month.	Average daily earnings.
No. 72.....	\$634 02	250	20.10	\$52 83½	22 53½	\$607 21	250	20.10	\$50 60	22 43
73.....	700 38	222.5	18.6	58 36½	3 15½	652 36	213.1	17.9	54 36	3 06
74.....	806 63	242	20.2	67 22	3 33	805 83	242	20.2	67 15	3 33
75.....	709 05	230.5	19.2	59 09	3 08	669 93	231.4	19.3	55 83	2 90
76.....	738 85	254	21.2	61 57	2 91	709 69	245	20.5	59 14	2 90
77.....	631 00	213	17.9	52 58	2 96	608 00	213	17.9	50 67	2 85
78.....	897 69	253.4	21.1	74 81	3 55	867 54	253.4	21.1	72 29½	3 43
79.....	763 79	260.8	21.8	63 65	2 94	674 35	260.8	21.8	56 19½	2 59
80.....	665 35	252	21	55 44½	2 64	552 62	210	17.6	46 05	2 63
81.....	773 30	248.2	20.8	64 44	3 12	680 52	246.4	20.6	56 71	2 77
82.....	749 88	270	22.6	62 49	2 78	747 73	291½	24.3	62 31	2 57
83.....	912 38	234½	19.6	76 03	3 90	898 28	243	20.3	74 86	3 70
84.....	585 39	231	20.1	48 78	2 43	560 70	239	19.11	46 72½	2 34
85.....	861 63	240	20	71 80	3 59	911 33	245	20.5	75 94	3 72
86.....	708 68	293	24.11	59 06	2 37	707 51	299	24.11	58 96	2 37
87.....	728 54	246½	20.6	60 72	2 96	706 77	243	20.3	58 90	2 91
88.....	797 28	229	19.1	66 44	3 48	784 53	238	19.10	65 71	3 31
89.....	715 00	281	23.5	59 58	2 54½	659 00	262	21.10	54 92	2 51½
90.....	989 91	243½	20.3	82 49	4 07	886 90	235½	19.7	73 91	3 77
91.....	663 01	269	22.5	55 25	2 46½	659 85	288	24	54 99	2 29
92.....	728 65	289	24.1	60 72	2 52	598 37	283	23.7	49 86	2 11
93.....	1,011 86	242.4	20.2	84 32	4 18	760 37	246½	20.6	63 36	3 09
94.....	613 98	263	21.11	51 16	2 71½	492 00	210	17.6	41 00	2 34
95.....	629 72	210	17.6	52 48	3 00	679 02	234	19.6	56 58½	2 10
96.....	675 41	252	21	56 28	2 68	660 77	257	21.5	55 06	2 57
97.....	701 00	265.5	22.1	58 42	2 64½	752 00	265.5	22.1	62 67	2 84
98.....	547 95	262	21.10	45 66	2 09	540 78	225	18.9	45 06½	2 40
99.....	525 61	213.5	17.9	43 80	2 47	515 21	210½	17.6	42 93	2 45
100.....	902 02	273	22.9	75 17	3 30	817 51	241	20.1	68 12½	3 40
101.....	505 07	182½	15.2	42 09	2 77½	513 04	181½	15.1	42 75	2 84
102.....	801 16	254½	21.2	66 76	3 15	778 67	254½	21.2	64 89	3 06½
103.....	708 35	224	18.8	59 03	3 16	684 91	223½	18.7	57 07½	3 07
104.....	770 21	257	21.5	64 18	3 00	790 63	270	22.6	65 88½	2 93
105.....	513 81	303	25.3	42 82	1 69½	503 02	297	24.9	41 92	1 69
105.....	819 09	221	18.5	68 25	3 70½	807 00	221	18.5	67 25	3 65
107.....	853 09	257.4	21.5	71 09	3 32	829 68	269.2	22.5	69 14	3 08
108.....	546 18	190	15.10	45 51½	2 87½	540 53	194	16.2	45 05	2 79
109.....	757 00	197	16.5	63 08	3 84	748 00	197	16.5	62 33	3 79½
110.....	523 47	284	23.8	43 62	1 84½	509 89	283	23.7	42 49	1 80
111.....	712 13	282	23.6	59 34	2 52½	760 32	239	19.11	63 36	3 18
112.....	423 69	214½	17.10	35 31	1 98	411 58	214½	17.10	34 50	1 92
113.....	534 00	210.7	17.6	44 50	2 54	523 00	210.7	17.6	43 58	2 49
114.....	676 75	.....	.....	56 39½	.....	727 84	.....	.....	60 65	.....
115.....	878 19	247.7	20.7	73 18	3 55½	951 34	247.7	20.7	79 28	3 85
116.....	627 54	.....	.....	52 29½	.....	593 80	.....	.....	49 48	.....

Individual Earnings of Bituminous Miners—Continued.

COLLIERY.	NINTH MAN.					TENTH MAN.				
	Yearly earnings.	No. of days.	Average days per month.	Average earnings per month.	Average daily earnings.	Yearly earnings.	No. of days.	Average days per month.	Average earnings per month.	Average daily earnings.
No. 1.....	\$549 86	266	22.2	\$45 82	\$2 06½	\$559 24	262	21.10	\$46 61	\$2 14
2.....	554 08	227	18.11	46 18	2 00	485 80	257	21.5	44 70½	1 88
3.....	494 24	264	22	41 18	1 87	597 88	271	22.7	49 82	2 20½
4.....	521 64	266	21.2	43 47	1 96	517 57	570	22.6	43 13	1 92
5.....	414 81	224	18.8	34 57	1 85	673 22	253	21.1	56 10	2 66
6.....	454 74	250	20.10	38 00	1 82	375 92	243	20.3	31 53	1 54½
7.....	517 00	252	21	43 00	2 08	568 11	258	21.6	47 34	2 20½
8.....	378 36	204	17	31 53	1 85½	372 14	218	18.2	31 01	1 67
9.....	343 87	173	14.5	28 65	1 98½	334 46	176	14.8	27 87	1 90
10.....	715 00	192	16	59 50	3 72½	706 00	192	16	58 83	3 67
11.....	613 25	265	22.1	51 10½	2 31½	632 44	272	22 8	52 68	2 32½
12.....	593 16	274	22.10	49 43	2 17	592 73	275	22.11	49 39	2 16
13.....	536 22	244	20.4	44 68½	2 28	658 23	256	21.4	54 86	2 57
14.....	602 19	233	19.5	50 18	2 58½	641 35	244	20.4	53 44½	2 63
15.....	640 02	273	22.9	53 33½	2 34½	637 50	283	23.7	53 12½	2 25
16.....	444 00	148½	12.4	37 00	3 00	491 00	155	12.11	41 00	3 00
17.....	449 82	215	17.11	37 48½	2 09	396 82	296	18.10	33 07	1 75½
18.....	621 60	296	24.8	51 80	2 90	612 48	352	29.4	51 04	1 74
19.....	675 00	273	22.9	56 25	2 47	618 00	259	21.7	51 50	2 39
20.....	768 92	261	21.9	64 03	2 94½	731 66	232	19.4	60 97	3 15
21.....	789 03	245	20.5	65 75	3 22	789 08	245	20.5	65 76	3 22
22.....	662 99	273	22.9	54 41½	2 39	514 00	265	22.1	42 83	1 94
23.....	479 00	231	19.3	39 92	2 07	464 00	229	19.1	38 67	2 02½
24.....	401 00	190	15.10	33 42	2 11	417 00	222	18.6	34 75	1 88
25.....	603 60	226	18.10	50 30	2 67	600 48	220	18.4	50 04	2 73
26.....	584 31	201	16.9	48 69	2 91	487 49	197	16.5	40 62	2 47½
27.....	461 92	251	20.11	38 49	1 84	416 98	241	20.1	34 75	1 73
28.....	424 25	264	22	35 35	1 61	423 58	253	21.1	35 30	1 67½
29.....	576 68	235	19.7	48 06	2 45	611 47	244½	20.4	50 95½	2 50½
30.....	665 00	299	24.11	55 42	2 22½	651 00	301	25.1	54 25	2 16
31.....	277 00	140	11.8	23 08	1 98	275 00	138	11.6	22 97	1 99
32.....	882 91	204	17	73 57½	4 33	803 00	204	17	66 92	3 93½
33.....	740 29	220	18.4	61 69	3 36½	695 76	224	18.8	57 98	3 10
34.....	835 40	217	18	69 62	3 85	723 20	198	16.6	60 27	3 65
35.....	515 99	189	15.9	43 00	2 73	506 02	189	15.9	42 17	2 68
36.....	378 36	204	17	31 53	1 85½	372 14	218	18.2	31 01	1 71
37.....	523 68	198	16.6	43 64	2 64½	519 28	198	16.6	43 27	2 62
38.....	552 68	266	22.2	46 06	2 03	560 23	265	22.1	46 68½	2 11
39.....	517 57	249	20.9	43 13	2 08	506 07	249	20.9	42 17	2 03
40.....	529 47	272	22.8	44 12½	1 95	517 90	272	22.8	43 16	1 90
41.....	565 38	250	20.10	47 11½	2 26	571 92	250	20.10	47 66	2 29
42.....	532 45	264	22	44 37	2 02	525 38	264	22	43 78	1 99
43.....	514 00	245	20.5	42 83	2 10	502 77	245	20.5	41 90	2 05
44.....	373 00	190	15.10	31 08	1 96	383 00	192	16	31 92	1 99½
45.....	415 00	260	21.8	34 58	1 60	422 00	260	21.8	35 17	1 62
46.....	692 57	241	20.1	57 71	2 87	664 89	241	20.1	55 41	2 76
47.....	580 50	285	23.9	48 37½	2 03½	592 50	293	24.5	49 37½	2 02
48.....	279 00	144	12	23 25	1 94	261 00	145	12.1	21 75	1 89
49.....	973 25	259½	21.7	81 10½	3 76	770 57	259½	21.7	64 21	2 17½
50.....	457 78	146	12.2	38 15	3 13½	301 23	115½	9.7	25 10	2 62
51.....	695 00	307	25.7	57 92	2 26	679 00	307	25.7	56 58	2 21
52.....	424 19	198	16.6	35 35	2 14	356 05	189	15.9	29 67	1 88
53.....	331 80	146	12.2	27 65	2 27	324 71	146	12.2	27 06	2 22
54.....	680 39	242	20.2	56 70	2 81	702 03	244	20.4	58 50	2 88
55.....	485 06	158	13.2	40 42	3 07	605 50	190	15.10	50 46	3 19
56.....	355 72	148	12.4	29 64	2 40	360 60	148	12.4	30 05	2 44
57.....	456 67	207	17.3	38 05½	2 20	435 59	208	17.4	36 30	2 09½
58.....	500 81	250	20.10	41 73	2 00	487 43	250	20.10	40 62	1 95
59.....	513 61	298	24.10	42 80	1 73	495 39	296	24.8	41 28	1 55
60.....	465 27	229	19.1	38 77	2 03	409 86	146	12.2	34 15½	2 81
61.....	301 08	190	15.10	25 09	1 58½	280 17	187	15.7	23 35	1 50
62.....	594 99	.....	.....	49 58	.....	633 46	.....	.....	52 77	.....
63.....	271 77	97	8.1	22 65	2 80	267 84	96	8	22 32	2 79
64.....	54 90	144	12	47 91	3 99	556 73	136	11.4	46 39	4 09
65.....	405 34	194	16.2	33 78	2 09	267 43	141	11.9	22 28½	1 89
66.....	490 20	171	14.3	40 85	2 87	473 12	169	14.1	39 43	2 80
67.....	307 64	158	13.2	25 64	1 95	320 83	150	12.6	26 73½	2 14
68.....	558 22	188	15.8	46 52	2 97	543 79	192	16	45 31½	2 83
69.....	571 50	282	23.6	47 62½	2 03	593 30	290	24.2	49 34	2 04½
70.....	826 37	288	24	68 87	2 87	458 63	258	21.6	38 22	1 78
71.....	516 05	295	24.7	43 00	1 75	494 94	284	23.8	41 24½	1 74

Individual Earnings of Anthracite Miners—Continued.

COLLIERY.	'NINTH MAN.					TENTH MAN.				
	Yearly earnings.	No. of days.	Average days per month.	Average earnings per month.	Average daily earnings.	Yearly earnings.	No. of days.	Average days per month.	Average earnings per month.	Average daily earnings.
72.....	1,015 27	246	20.6	\$84 60 ¹ / ₂	\$4 13	717 34	252	21	\$59 78	\$2 85
73.....	718 15	235.1	19.7	59 84 ¹ / ₂	3 05	582 74	192.8	16	48 56	3 03 ¹ / ₂
74.....	745 63	229	19.1	62 13 ¹ / ₂	3 25 ¹ / ₂	648 63	203	16.11	54 05	3 19 ¹ / ₂
75.....	693 25	243.5	20.3	57 77	2 85 ¹ / ₂	657 06	232.5	19.4	54 75 ¹ / ₂	2 83
76.....	604 22	212	17.8	50 35	2 85	666 83	237	19.9	55 57	2 81
77.....	590 00	213	17.9	49 17	2 77	581 00	213	17.9	48 42	2 73
78.....	828 36	256.6	21.4	69 03	3 23 ¹ / ₂	711 26	230.5	19.2	59 27	3 09
79.....	663 21	260.8	21.8	55 26	2 55	641 74	260.8	21.8	53 48	2 47
80.....	656 38	244	20.4	54 70	2 69	631 92	233	19.5	52 66	2 71
81.....	713 51	242.9	20.2	59 46	2 95	652 32	226.9	18.10	54 36	2 88 ¹ / ₂
82.....	745 77	264 ¹ / ₂	22	62 15	2 82 ¹ / ₂	739 08	272	22.8	61 59	2 72
83.....	916 18	252 ¹ / ₂	21	76 35	2 63 ¹ / ₂	968 40	251	20.11	80 70	3 84
84.....	561 45	247	20.7	46 79	2 27	535 07	246	20.6	44 59	2 17 ¹ / ₂
85.....	961 88	255	21.3	80 16	3 77	1,021 88	261	21.9	85 16	3 91
86.....	700 27	264	22	58 35 ¹ / ₂	2 65	684 76	282	23.6	57 06	2 43
87.....	724 75	255	21.3	60 39 ¹ / ₂	2 84	673 74	241 ¹ / ₂	20.1	56 14 ¹ / ₂	2 79 ¹ / ₂
88.....	760 00	214	17.10	63 33	3 55	676 45	195 ¹ / ₄	16.3	56 37	3 47
89.....	655 00	265	22.1	54 58	2 47	639 00	269	22.5	53 25	2 37 ¹ / ₂
90.....	820 99	240	20	68 41 ¹ / ₂	3 42	808 15	243 ³ / ₄	20.3	67 34 ³ / ₈	3 32 ¹ / ₂
91.....	649 60	279	23.3	54 13	2 33	610 07	264.5	22	50 84	2 13
92.....	565 66	267	22.3	47 14	2 12	513 38	282	23.6	42 78	1 82
93.....	1,005 93	237.3	19.9	83 83	4 24 ¹ / ₂	836 08	247.3	20.7	69 75	3 39
94.....	492 00	210	17.6	41 00	2 34	569 80	259	21.7	47 48	2 20
95.....	679 84	236	19.8	56 64 ¹ / ₂	2 88	628 49	253	21.1	52 37	2 48
96.....	674 54	271	22.7	56 21	2 49	579 32	213	17.9	48 28	2 72
97.....	704 00	265.5	22.1	58 67	2 66	723 00	265.5	22.1	60 25	2 73
98.....	514 64	216	18	42 89	2 38	513 48	235	19.7	42 86 ¹ / ₂	2 18 ¹ / ₂
99.....	358 57	141.5	11.9	29 88	2 54	345 58	138 ³ / ₄	11.6	28 80	2 50
100.....	718 58	227	18.11	59 88	3 16 ¹ / ₂	783 65	238	19 10	65 30	3 29
101.....	487 04	179 ⁵ / ₈	14 11	40 59	2 72	537 01	183 ¹ / ₄	15.3	44 75	2 93 ¹ / ₂
102.....	751 69	254 ¹ / ₄	21.2	62 64	2 96	717 25	254 ¹ / ₄	21 2	59 77	2 82
103.....	630 41	226 ¹ / ₄	18.10	52 53	2 79	620 91	223	18.7	51 74	2 78
104.....	777 17	273	22.9	64 76	2 85	659 56	233	19.5	54 97	2 83
105.....	498 20	295	24.7	41 52	1 69	489 67	268	22.4	40 80 ¹ / ₂	1 83
106.....	783 00	221	18.5	65 25	3 54	746 00	221	18.5	62 17	3 37 ¹ / ₂
107.....	753 87	256.7	21.4	62 82	2 94 ¹ / ₂	707 97	247.8	20.7	59 00	2 87
108.....	528 82	182	15.2	44 07	2 90 ¹ / ₂	529 82	189	15.9	44 15	2 80
109.....	740 00	197	16.5	61 67	3 76	732 00	197	16.5	61 00	3 72
110.....	491 95	272	22.8	40 99 ¹ / ₂	1 81	479 43	286	23.10	39 95	1 68
111.....	701 98	278	23.2	58 50	2 52 ¹ / ₂	695 67	283	23.7	57 97	2 46
112.....	387 10	224 ¹ / ₂	17.10	32 26	1 81	349 22	214 ¹ / ₂	17.10	27 10	1 63
113.....	514 00	210.7	17.6	42 83	2 45	498 00	210.7	17.6	41 50	2 37
114.....	799 11	.....	.....	66 59	.....	602 63	.....	.....	50 22	.....
115.....	873 66	247.7	20.7	72 80 ¹ / ₂	3 54	817 15	247.7	20.7	68 09	3 31
116.....	565 56	.....	.....	47 13	.....	777 40	.....	.....	64 78	.....

Average Earnings of Bituminous Miners.—Continued.

COLLIERY.		HIGHEST,					LOWEST.					
		No. of days in operation during the year.	Total annual earnings of ten highest.	Average earnings.	Total days worked by ten highest.	Average number of days.	Average daily wage.	Total annual earnings ten lowest.	Average earnings.	Total days worked by ten lowest.	Average number of days.	Average daily wage.
No.	1.....	281	\$5,996 74	\$599 67	2,639	263.9	\$2 27	\$4,196 42	\$419 64	2,486	248.6	\$1 69
	2.....	278	5,903 58	590 35	2,636	263.6	2 24	4,306 91	430 69	2,568	256.8	1 68
	3.....	280	5,291 54	529 15	2,629	262.9	2 00	3,817 45	381 75	2,461	246.1	1 55
	4.....	282	5,374 84	537 48	2,661	266.1	2 02	4,162 41	416 24	2,635	263.5	1 58
	5.....	244	6,453 95	645 39	2,403	240.8	2 68	3,069 23	305 92	2,048	204.8	1 49
	6.....	288	4,351 47	435 15	2,513	251.3	1 73	3,435 80	343 58	2,478	247.8	1 40
	7.....	291	5,444 42	544 44	2,557	255.7	2 13	3,535 65	353 56	2,421	242.1	1 46
	8.....	235	4,976 97	497 70	2,130	213.	2 33	3,247 62	324 76	2,104	210.4	1 54
	9.....	185	1,195 31	419 53	1,779	177.9	2 36	2,212 99	221 30	1,637	163.7	1 35
	10.....	192	8,720 00	872 00	2,320	232.	3 76	3,039 00	303 90	1,894	189.4	1 63
	11.....	278	6,643 32	664 33	2,710	271.	2 45	5,048 40	504 84	2,519	251.9	2 06
	12.....	278	6,211 60	621 16	2,734	273.4	2 27	5,287 87	528 79	2,584	258.4	2 05
	13.....	248½	5,147 42	514 74	2,422	242.2	2 13	3,714 79	371 50	2,610	261.	1 42
	14.....	274½	6,369 01	636 90	2,442	244.2	2 61	3,358 74	335 87	2,120	212.	1 58
	15.....	269½	6,020 68	602 07	2,479	247.9	2 43	3,674 49	367 45	2,534	253.4	1 45
	16.....	194	4,623 00	462 30	1,489	148.9	3 10	3,737 00	373 70	1,381	138.1	2 71
	17.....	214	5,005 24	500 62	2,262	226.2	2 21	2,978 15	279 81	2,262	226.2	1 31
	18.....	313	6,587 61	658 76	3,239	323.9	2 03	4,283 27	428 33	2,661	266.1	1 61
	19.....	269½	6,522 00	652 20	2,663	266.3	2 45	4,325 00	432 50	2,658	265.8	1 63
	20.....	270	8,086 24	808 62	2,530	253.	3 20	2,790 18	279 02	2,245	224.5	1 24
	21.....	280	5,952 35	595 23	2,609	260.9	2 28	4,247 35	424 73	2,426	242.6	1 75
	22.....	281	6,632 77	663 28	2,781	278.1	2 38	3,672 38	367 24	2,374	237.4	1 55
	23.....	231	4,559 00	455 90	2,197	219.7	2 08	3,391 00	339 10	2,003	200.3	1 69
	24.....	235	5,300 00	530 00	2,203	220.8	2 04	3,152 00	315 20	2,137	213.7	1 47
	25.....	221	5,000 56	506 06	2,181	218.1	2 32	3,119 24	311 92	2,042	204.2	1 53
	26.....	205	5,082 82	508 28	1,941	194.1	2 62	3,889 54	388 95	1,894	189.4	2 05
	27.....	263	5,276 84	527 68	2,426	242.6	2 19	2,741 37	274 13	2,076	207.6	1 32
	28.....	263	4,804 93	480 49	2,518	251.8	1 91	2,630 06	263 00	2,501	250.1	1 05
	29.....	260½	5,284 79	528 48	2,284	228.4	2 32	3,784 69	378 47	2,195	219.5	1 72
	30.....	284.3	6,610 00	661 00	2,968	296.8	2 22	4,134 00	413 40	2,718	271.8	1 52
	31.....	250	3,956 00	395 60	1,862	186.2	2 13	3,310 00	331 00	1,753	175.3	1 89
	32.....	204	7,200 36	728 04	2,040	204.	3 57	2,265 89	226 59	2,040	204.	1 11
	33.....	212½	7,411 00	741 10	2,228	222.8	3 33	3,252 03	325 21	2,122	212.2	1 53
	34.....	226	7,873 26	787 33	2,122	212.2	3 71	3,397 95	339 79	2,077	207.7	1 64
	35.....	189	6,209 54	620 95	1,890	189.	3 29	2,628 67	262 87	1,890	189.	1 39
	36.....	235	4,979 15	497 91	2,134	213.4	2 33	3,241 32	324 13	2,102	210.2	1 54
	37.....	200	4,918 97	491 90	1,878	187.8	2 62	3,450 80	345 08	1,733	173.3	1 99
	38.....	282	5,892 78	589 28	2,691	269.1	2 19	4,946 54	494 65	2,630	263.	1 88
	39.....	249	5,522 01	552 20	2,490	249.	2 22	3,476 08	347 61	2,440	244.	1 40
	40.....	272	5,672 41	567 24	2,700	272.	2 09	3,529 20	352 92	2,720	272.	1 29
	41.....	250	5,748 51	574 85	2,500	250.	2 30	3,849 04	384 90	2,500	250.	1 54
	42.....	264	5,593 72	559 37	2,640	264.	2 12	3,528 94	352 89	2,640	264.	1 34
	43.....	245	5,476 90	547 69	2,450	245.	2 24	3,418 98	341 90	2,450	245.	1 40
	44.....	183.5	3,997 12	399 71	1,835	183.5	2 18	3,432 50	343 25	1,828	182.8	1 88
	45.....	278	4,510 00	451 00	2,599	259.9	1 74	3,147 00	314 70	2,438	243.8	1 29
	46.....	241	6,321 18	632 12	2,410	241.	2 62	4,564 33	456 33	2,410	241.	1 89
	47.....	220	6,618 08	661 81	3,025	302.5	2 19	2,455 52	245 55	1,739	173.9	1 41
	48.....	166	3,363 60	336 30	1,474	147.4	2 28	1,970 00	197 00	1,195	119.5	1 65
	49.....	259½	7,947 38	794 74	2,598	259.8	3 06	5,475 86	547 59	2,598	259.8	2 11
	50.....	147	3,797 70	379 77	1,321	132.1	2 87	2,089 04	208 90	1,043	104.3	2 00
	51.....	307	7,528 50	752 85	3,070	307.	2 45	3,729 00	372 90	3,070	307.	1 23
	52.....	200.5	4,078 51	407 85	2,116	211.6	1 93	2,458 78	245 88	1,891	189.1	1 30
	53.....	155½	3,777 39	377 74	1,460	146.	2 59	2,108 60	210 86	1,353	135.3	1 56
	54.....	261	7,131 34	713 13	2,429	242.9	2 93	1,564 75	156 47	1,288	128.8	1 21
	55.....	182	5,559 51	555 95	2,043	204.3	2 72	662 98	66 30	589	58.9	1 13
	56.....	150	3,655 95	365 59	1,470	147.	2 49	2,673 32	267 33	1,406	140.6	1 90
	57.....	198.5	5,935 70	593 57	2,110	211.	2 81	2,292 30	229 23	1,860	186.	1 23
	58.....	250	5,694 51	569 45	2,500	250.	2 24	3,829 64	382 96	2,500	250.	1 53
	59.....	311	6,036 02	603 60	3,047	304.7	1 98	3,695 75	369 57	2,537	253.7	1 46
	60.....	173.95	4,598 98	459 90	1,741	174.1	2 64	2,294 05	229 40	1,738	173.8	1 90
	61.....	242	4,507 97	450 80	2,269	226.9	1 99	2,040 52	204 05	1,457	145.7	1 40
	62.....	234½	6,360 99	636 10	2,345	234.5	2 70	2,858 10	285 81	2,345	234.5	1 22
	63.....	110	2,863 13	286 31	962	96.2	2 98	1,245 03	124 50	765	76.5	1 63
	64.....	154	5,738 82	573 88	1,472	147.2	3 90	3,111 26	311 13	1,262	126.2	2 47
	65.....	292	4,671 24	467 12	1,982	198.2	2 36	3,417 20	341 72	1,763	176.3	1 94
	66.....	169.1	4,789 42	478 94	1,711	171.1	2 80	2,585 89	258 59	1,671	167.1	1 55
	67.....	152	3,461 98	346 20	1,576	157.6	2 20	2,448 01	244 80	1,464	146.4	1 67
	68.....	238	5,078 20	507 82	1,917	191.7	2 65	3,769 03	376 90	1,817	181.7	2 07
	69.....	272.1	5,748 86	574 89	2,834	283.4	2 03	4,883 15	488 31	2,608	260.8	1 87
	70.....	289½	6,058 64	605 86	2,735	273.5	2 22	4,332 02	433 20	2,636	263.6	1 64
	71.....	295	5,556 38	555 64	2,883	288.3	1 93	4,446 64	444 66	2,771	277.1	1 60

Average Earnings of Anthracite Miners.—Continued.

COLLIERY.	HIGHEST.						LOWEST.					
	Number of days in operation during the year.	Total annual earnings of ten highest.	Average earnings.	Total days worked by ten highest.	Average number of days.	Average daily wage.	Total annual earnings of ten lowest.	Average earnings.	Total days worked by ten lowest.	Average number of days.	Average daily wage.	
No. 72.....	255	\$7,176 96	\$717 70	2,484	248.4	\$2 90	\$4,078 09	\$407 81	2,328	232.8	\$1 75	
73.....	238	7,414 15	741 41	2,244	224.4	3 30	5,973 16	597 32	2,170	217.	2 75	
74.....	219	7,724 19	772 42	2,289	228.9	3 42	5,145 54	514 55	2,286	228.6	2 25	
75.....	243	7,156 78	715 68	2,352	235.2	3 04	5,851 78	585 18	2,247	224.7	2 60	
76.....	233	7,392 76	739 28	2,430	243.	3 04	4,844 35	484 43	2,275	227.5	2 13	
77.....	213	7,444 00	744 40	2,130	213.	3 49	4,716 00	471 60	2,130	213.	2 21	
78.....	246.8	8,754 28	875 43	2,429	242.9	3 60	4,540 40	454 04	2,396	239.6	1 89	
79.....	260.8	8,047 40	804 74	2,608	260.8	3 09	5,045 84	504 58	2,608	260.8	1 93	
80.....	237	6,878 30	687 83	2,416	241.6	2 85	5,027 37	502 74	2,301	230.1	2 18	
81.....	264.5	7,592 02	759 20	2,384	238.4	3 18	5,937 34	593 13	2,441	244.1	2 43	
82.....	214	7,884 01	788 40	2,639	263.9	2 99	3,521 03	352 10	2,343	234.3	1 50	
83.....	236.75	9,054 60	905 46	2,443	244.3	3 71	3,465 21	346 52	2,302	230.2	1 51	
84.....	237.95	6,394 66	639 47	2,422	242.2	2 60	3,838 05	383 80	2,337	233.7	1 64	
85.....	231.4	8,395 91	839 59	2,385	238.5	3 52	3,021 06	302 11	2,243	224.3	1 35	
86.....	305	7,718 87	771 89	2,794	279.4	2 71	4,992 98	499 30	2,621	262.1	1 90	
87.....	249.65	7,325 80	732 58	2,543	254.3	2 88	5,641 03	564 10	2,450	245.	2 32	
88.....	242.5	8,246 03	824 60	2,281	228.1	3 66	3,730 79	373 08	2,053	205.3	1 33	
89.....	244.5	6,682 00	668 20	2,492	249.2	2 68	4,448 00	444 80	2,296	229.6	1 94	
90.....	243.75	9,176 68	917 67	2,372	237.2	3 87	5,471 98	547 20	2,379	237.9	2 30	
91.....	301	7,217 13	721 71	2,726	272.6	2 65	3,936 06	393 61	2,719	271.9	1 45	
92.....	253.5	7,320 50	732 05	2,817	281.7	2 60	4,739 68	473 97	2,698	269.8	1 76	
93.....	246.4	8,586 30	858 63	2,450	245.	3 50	4,978 69	497 87	2,369	236.9	2 10	
94.....	231	6,546 71	654 67	2,590	259.	2 53	3,705 82	370 58	2,167	216.7	1 71	
95.....	228	7,548 55	754 85	2,399	239.9	3 15	4,104 23	410 42	2,239	223.9	1 83	
96.....	236.65	6,889 49	688 95	2,508	250.8	2 75	4,937 56	493 76	2,225	222.5	2 22	
97.....	265.5	7,169 00	716 90	2,655	265.5	2 70	4,003 00	400 30	2,655	265.5	1 51	
98.....	280	5,862 64	586 26	2,363	236.3	2 48	3,925 69	392 57	2,316	231.6	1 69	
99.....	253.5	5,013 87	501 36	2,024	202.4	2 97	3,304 86	330 49	1,406	140.6	2 35	
100.....	203.6	8,714 98	871 50	2,530	253.	3 44	4,288 19	428 82	2,382	238.2	1 80	
101.....	250	5,119 66	511 97	1,808	180.8	2 83	3,712 63	371 26	1,654	165.4	2 24	
102.....	254.25	8,571 61	857 16	2,542	254.2	3 37	4,173 89	417 39	2,542	254.2	1 64	
103.....	227.5	8,335 46	833 55	2,242	224.2	3 72	5,380 54	538 05	2,244	224.4	2 40	
104.....	222.75	8,091 81	809 18	2,625	262.5	3 08	5,735 38	573 54	2,553	255.3	2 25	
105.....	301	5,382 42	538 24	2,658	265.8	2 02	3,374 48	337 45	2,539	253.9	1 33	
106.....	220	8,328 00	832 80	2,210	221.	3 77	6,105 00	610 50	2,230	223.	2 74	
107.....	268	8,445 58	844 56	2,413	241.3	3 50	6,542 90	654 29	2,520	252.	2 60	
108.....	241	5,675 43	567 54	1,962	196.2	2 89	5,025 22	502 52	1,858	185.8	2 70	
109.....	203	8,044 00	804 40	1,970	197.	4 08	5,165 00	516 50	1,980	198.	2 61	
110.....	301	6,728 50	672 85	2,801	280.	2 40	3,579 62	357 96	2,556	255.6	1 40	
111.....	308	7,599 33	759 93	2,724	272.4	2 79	4,417 79	441 78	2,705	270.5	1 63	
112.....	214.5	4,408 86	440 89	2,145	214.5	2 06	3,796 63	379 66	2,145	214.5	1 77	
113.....	210.7	5,551 00	555 10	2,107	210.7	2 63	4,287 00	428 70	2,107	210.7	2 03	
114.....	262	7,215 86	721 59	2,620	262.	2 75	3,806 64	380 66	2,620	262.	1 45	
115.....	247.7	9,429 44	942 94	2,477	247.7	3 81	5,170 95	517 09	2,477	247.7	2 09	
116.....	231.5	6,081 27	608 13	2,315	231.5	2 63	3,022 40	302 24	2,315	231.5	1 31	



BITUMINOUS MINERS' EARNINGS.

No. 1.—IN OPERATION DURING THE YEAR, 281 DAYS.

Highest Individual Earnings.

1888.	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
January,	\$47 61	19	\$60 87	22	\$57 54	21	\$39 45	15	\$60 75	22	\$58 28	23	\$55 08	23	\$56 52	23	\$51 84	23	\$41 34	18
February,	62 10	27	48 72	17	52 68	17	49 65	17	48 00	17	68 65	17	40 68	17	39 96	17	45 18	17	42 51	17
March,	51 25	18	56 67	20	56 79	20	47 89	19	50 96	20	61 80	20	39 28	17	44 18	20	43 53	20	47 19	20
April,	52 17	23	52 83	22	58 46	24	50 84	23	52 47	24	63 88	24	51 78	24	46 66	23	43 74	24	52 50	24
May,	57 45	24	53 26	23	59 22	26	34 63	15	54 26	26	61 24	24	51 41	23	42 76	22	52 28	23	53 22	26
June,	49 89	21	50 09	21	48 24	21	44 65	19	43 55	21	49 89	21	45 74	21	35 33	21	51 03	21	40 00	19
July,	40 07	19	52 44	21	55 32	22	52 83	22	46 08	22	43 85	21	40 77	21	33 69	21	42 34	20	44 62	22
August,	C 07	21	63 18	26	47 00	21	55 38	23	43 17	24	44 23	23	42 12	23	44 72	23	41 09	22	52 12	26
September,	28 73	15	60 37	24	53 33	23	41 95	18	44 07	26	56 70	25	36 28	19	49 25	24	46 93	25	52 86	23
October,	46 65	23	69 82	27	67 67	23	61 34	26	43 75	24	41 23	21	57 99	27	58 64	27	46 00	24	47 12	24
November,	56 32	24	56 11	23	61 85	24	63 65	25	47 89	26	60 10	25	50 17	24	52 48	25	44 71	23	40 33	22
December,	43 09	20	65 38	24	57 63	21	57 27	24	44 79	22	53 73	24	46 49	20	40 83	22	41 14	24	56 43	19
Total,	\$575 40	254	\$689 65	270	\$615 73	270	\$599 03	246	\$580 34	274	\$664 68	268	\$557 79	259	\$545 02	270	\$549 86	263	\$593 24	262

Lowest Individual Earnings.

January,	\$29 06	21	\$41 76	21	\$40 92	20	\$36 38	19	\$42 84	22	\$37 44	22	\$32 40	20	\$26 98	17	\$46 80	21	\$38 58	21
February,	20 30	14	3 48	17	32 74	16	33 74	17	35 44	17	32 40	16	16 56	10	36 36	17	37 44	16	33 74	16
March,	21 66	16	37 56	19	34 86	17	34 08	19	37 12	20	31 97	19	26 66	17	37 39	20	42 88	20	32 85	17
April,	28 57	23	41 27	28	28 39	23	36 63	22	40 08	24	35 66	22	26 57	18	36 57	24	39 85	24	45 28	23
May,	27 76	23	42 62	25	49 24	25	41 34	24	37 64	25	34 35	22	26 24	19	43 42	24	41 15	23	40 08	24
June,	21 87	18	35 53	19	31 21	20	36 45	21	26 80	21	19 12	13	27 54	18	32 73	21	36 61	21	34 27	21
July,	23 85	19	39 96	22	33 43	21	39 46	22	35 17	20	23 13	17	17 50	14	32 40	21	31 3 3	20	33 50	20
August,	29 06	24	38 99	24	40 83	24	43 26	25	34 57	21	30 13	19	23 01	18	32 72	23	42 44	23	32 75	20
September,	24 23	17	47 49	22	37 49	19	45 39	25	47 41	25	37 38	25	23 84	21	39 52	25	42 44	23	32 75	20
October,	15 35	13	27 52	22	47 49	27	44 25	26	39 15	24	45 03	25	24 30	18	38 55	25	54 82	27	41 31	25
November,	29 79	22	48 50	26	25 53	14	31 87	19	45 06	24	41 80	23	27 22	19	37 58	23	41 80	23	43 63	25
December,	8 72	7	21 00	13	41 99	22	37 53	22	41 77	23	39 58	20	21 06	16	38 20	25	42 60	24	41 12	23
Total,	\$280 03	217	\$431 63	253	\$486 52	248	\$160 63	261	\$473 05	266	\$408 14	243	\$297 90	208	\$433 02	265	\$505 12	267	\$450 28	258

No. 2.—IN OPERATION DURING THE YEAR, 278 DAYS.
Highest Individual Earnings.

1888.	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
January,	\$64 41	23	\$51 99	23	\$52 24	22	\$50 06	23	\$46 83	23	\$51 36	23	\$51 99	23	\$53 12	23	\$51 62	23	\$49 84	23
February,	44 98	17	40 66	16	33 31	16	35 58	17	59 60	15	41 59	17	41 39	17	38 46	17	42 15	17	36 98	17
March,	47 26	20	42 07	15	23 04	15	36 94	17	32 70	19	37 33	19	36 65	20	39 09	20	35 36	20	33 63	20
April,	54 03	20	54 26	24	43 93	24	45 33	24	42 32	24	36 51	20	41 58	24	43 42	24	43 53	24	46 22	24
May,	60 60	26	60 35	26	49 12	26	58 90	26	55 90	26	53 63	26	53 30	26	53 85	26	47 50	26	54 09	26
June,	53 03	19	42 17	19	46 13	19	39 45	15	53 49	19	39 62	19	41 73	19	44 86	19	43 54	19	41 84	19
July,	41 08	20	36 73	20	17 42	10	21 03	13	37 63	20	36 29	26	37 42	20	29 55	18	36 79	20	33 72	20
August,	51 06	26	52 83	26	37 85	26	42 45	21	46 69	26	48 71	26	47 91	26	43 67	26	42 02	26	36 00	26
September,	50 26	25	46 49	25	41 87	25	50 87	25	45 51	25	48 32	25	43 35	25	42 83	25	46 05	25	40 01	25
October,	58 18	27	53 05	27	32 77	17	46 10	23	51 56	27	49 56	27	51 11	27	46 15	27	52 99	27	49 38	27
November,	49 76	25	59 66	25	77 38	25	56 55	25	57 23	25	52 58	25	53 16	25	47 83	25	51 60	25	48 40	25
December,	61 21	25	63 92	25	72 59	25	58 54	25	72 89	25	61 71	25	59 16	25	43 12	25	60 93	25	11 59	5
Total,	\$635 96	273	\$604 23	276	\$534 66	250	\$541 79	254	\$602 35	274	\$557 21	273	\$558 65	277	\$528 95	275	\$554 08	227	\$485 70	257

Lowest Individual Earnings.

January,	\$38 28	23	\$20 55	10	\$17 44	9	\$41 14	23	\$37 41	20	\$46 26	22	\$37 46	25	\$38 33	22	\$33 42	21	\$28 26	22
February,	32 59	16	39 42	17	35 44	20	31 96	16	30 77	16	35 67	17	47 32	25	32 89	18	28 32	14	24 47	24
March,	36 22	20	36 63	2	39 44	20	33 06	20	36 17	20	35 91	20	45 41	23	33 08	20	30 69	20	14 23	11
April,	34 85	24	35 49	24	28 24	14	30 60	20	39 59	24	33 46	24	36 91	17	27 20	14	27 81	20	22 44	17
May,	44 5	26	51 65	26	28 50	17	33 26	24	43 12	26	50 37	26	34 65	20	33 18	20	27 32	26	23 72	20
June,	33 16	18	40 33	19	33 03	20	23 10	15	30 11	15	36 26	19	40 08	24	37 64	24	37 64	18	26 32	24
July,	32 10	20	35 91	20	49 00	26	30 29	19	34 91	20	39 07	20	46 16	26	38 24	24	28 45	20	24 72	24
August,	38 19	26	44 87	26	30 75	16	37 43	25	35 56	26	34 57	26	36 31	19	25 12	16	33 34	26	23 34	19
September,	29 17	21	34 76	25	31 22	18	33 96	22	31 20	24	35 81	26	31 52	20	18 96	16	32 05	28	23 56	20
October,	41 26	27	46 86	27	24 17	13	35 65	23	39 27	27	34 83	27	38 68	26	29 18	20	33 15	28	22 33	24
November,	41 12	25	41 74	24	53 69	22	27 80	16	33 80	22	38 65	25	38 75	28	31 52	24	35 79	25	24 17	26
December,			50 95	25	39 19	27	23 65	13	44 48	25	40 69	25	41 40	27	39 22	27	40 48	25	16 01	27
Total,	\$401 61	246	\$479 22	263	\$391 16	227	\$402 60	241	\$441 39	265	\$445 56	277	\$475 30	278	\$389 56	243	\$396 95	203	\$233 62	238

No. 3.—IN OPERATION DURING THE YEAR, 280 DAYS.
Highest Individual Earnings.

18.	1 T MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
January.	\$55 12	22	\$39 26	19	\$50 37	23	\$33 60	23	\$40 80	22	\$53 06	23	\$43 10	23	\$46 09	23	\$40 40	22	\$56 69	23
February.	43 35	17	32 18	16	39 75	17	38 40	17	33 20	17	41 89	17	35 28	17	34 46	17	35 20	18	47 77	17
March.	37 62	17	41 88	19	39 49	19	35 32	16	24 93	15	37 32	19	37 00	19	73 02	19	25 82	19	49 32	19
April.	45 22	21	41 40	21	40 50	20	38 16	20	38 16	21	39 78	20	46 58	24	77 85	24	33 12	23	48 61	24
May.	54 68	26	48 30	24	29 16	17	25 36	24	48 96	25	51 03	24	39 78	24	53 70	26	50 10	26	61 43	23
June.	37 81	18	43 72	21	34 56	20	40 68	21	41 40	21	38 38	20	33 76	21	47 00	21	40 32	21	47 25	21
July.	45 22	20	43 68	20	34 38	17	33 70	19	35 10	18	43 87	20	35 10	20	50 00	20	30 60	13	47 25	20
August.	54 67	27	40 95	21	36 18	20	43 20	24	46 71	24	51 98	27	49 27	25	49 00	27	51 84	27	63 46	25
September.	50 63	25	41 58	21	38 94	20	42 66	23	45 90	24	50 08	25	54 67	25	48 75	25	38 83	20	44 57	25
October.	52 65	26	28 62	15	35 34	22	47 25	25	45 90	25	60 08	27	49 81	27	42 60	25	52 38	25	50 92	23
November.	43 88	21	42 21	22	41 04	24	42 93	23	49 68	25	47 25	25	43 89	25	49 20	25	48 60	24	37 67	25
December.	52 65	25	42 21	23	32 04	23	42 66	25	50 22	25	44 01	24	52 06	25	52 70	25	46 98	23	43 24	24
Total.	\$573 49	235	\$490 39	242	\$451 75	242	\$468 92	260	\$530 96	262	\$559 33	271	\$525 30	275	\$629 28	277	\$404 24	264	\$597 88	271

Lowest Individual Earnings.

January.	\$38 14	23	\$32 40	22	\$39 72	23	\$37 59	23	\$31 60	23	\$32 43	19	\$36 00	23	\$29 40	20	\$32 04	23	\$30 60	22
February.	22 40	17	26 40	16	28 80	17	31 05	17	30 80	17	18 69	11	33 60	17	21 60	14	24 00	15	24 21	16
March.	31 37	19	24 41	13	28 93	19	27 43	17	32 93	19	26 25	15	24 27	14	30 21	19	33 61	19	23 91	17
April.	30 24	23	32 50	20	35 58	22	37 44	23	37 62	22	25 64	17	18 45	10	34 02	23	32 40	20	24 30	17
May.	37 70	24	28 71	20	46 63	24	44 37	26	43 74	24	26 62	20	35 64	19	36 81	25	38 34	24	28 80	17
June.	30 33	19	30 78	20	37 33	21	31 54	21	33 48	20	28 62	17	23 92	16	24 34	16	27 54	16	23 31	18
July.	25 41	20	29 50	19	34 20	20	37 17	21	30 59	17	35 46	20	29 97	19	30 24	20	32 40	20	25 92	18
August.	34 02	20	34 56	23	36 99	24	38 43	23	39 33	26	32 76	23	34 11	22	39 95	27	44 82	27	29 70	20
September.	35 80	24	27 62	19	35 01	23	37 25	24	30 87	23	32 49	20	34 02	22	43 18	25	22 68	25	30 78	21
October.	35 90	24	34 48	24	46 62	27	35 01	23	25 42	16	32 13	21	20 52	13	35 10	23	32 04	23	29 97	20
November.	35 37	24	34 56	25	44 73	25	33 75	23	30 32	19	37 17	23	29 34	20	41 59	25	24 57	25	26 46	19
December.	32 43	23	32 96	22	39 06	23	31 73	24	23 31	15	28 98	16	29 70	20	37 23	23	25 20	23	25 92	19
Total.	\$391 03	260	\$365 98	246	\$438 75	263	\$422 75	265	\$390 56	241	\$359 05	222	\$351 54	215	\$404 21	260	\$369 64	260	\$320 88	224

No. 4.—IN OPERATION DURING THE YEAR, 282 DAYS.
Highest Individual Earnings.

	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
1888																				
January,	\$60 95	23	\$54 00	23	\$58 00	22	\$54 50	23	\$47 55	23	\$52 90	23	\$53 25	23	\$39 33	18	\$50 00	22	\$53 50	23
February,	23 75	14	35 50	17	35 00	17	37 00	17	35 00	17	35 07	16	37 00	17	33 50	16	37 50	17	31 50	16
March,	42 27	19	33 06	19	34 00	20	32 16	20	32 59	20	26 73	15	33 02	20	32 61	20	31 69	18	32 97	19
April,	50 40	24	35 35	22	39 15	22	38 70	22	40 50	22	37 22	18	40 20	24	43 20	24	36 93	22	38 25	23
May,	60 90	26	50 40	26	47 70	25	46 35	23	48 15	25	43 05	24	45 93	25	49 35	26	49 50	26	47 25	26
June,	46 72	21	37 95	19	10 80	5	42 30	21	37 80	20	42 00	21	38 25	20	39 80	20	36 90	20	40 50	20
July,	47 77	22	41 98	22	36 00	21	37 35	21	38 25	21	43 05	22	36 00	20	33 90	21	42 30	22	34 20	22
August,	57 22	26	46 80	27	44 10	23	44 55	25	40 05	23	46 72	23	46 80	27	59 40	26	46 35	26	43 20	26
September,	55 65	24	46 35	24	47 70	24	45 00	23	49 05	23	46 72	23	46 80	25	48 15	23	46 35	21	52 20	23
October,	52 67	23	45 45	22	49 95	25	62 90	26	57 45	27	50 40	25	58 95	27	56 33	27	56 25	26	59 40	27
November,	44 86	23	61 65	24	62 10	24	49 05	21	48 76	20	53 02	25	58 05	25	53 72	24	44 25	23	41 85	23
December,	46 57	23	57 15	24	45 90	22	46 80	23	53 10	25	49 35	24	56 25	25	48 15	25	40 95	23	42 75	24
Total,	\$594 13	268	\$545 79	263	\$510 40	250	\$537 66	265	\$538 30	267	\$522 04	259	\$550 47	278	\$536 84	270	\$521 64	266	\$517 57	270

Lowest Individual Earnings.

January,	\$36 50	22	\$29 50	19	\$37 93	22	\$38 50	22	\$29 70	22	\$29 50	20	\$41 00	23	\$34 50	23	\$31 00	19	\$31 00	22
February,	25 50	16	30 50	16	30 48	16	27 50	15	26 00	17	26 50	16	30 50	17	28 00	17	19 50	14	26 00	17
March,	30 30	19	32 10	20	29 87	21	30 30	20	23 88	20	26 66	18	30 79	20	33 50	20	19 50	18	28 93	20
April,	37 80	23	18 45	13	39 91	23	27 90	23	36 90	24	29 25	23	19 70	19	32 60	24	22 05	20	32 85	24
May,	40 05	23	34 20	23	37 27	24	41 40	26	42 75	25	31 05	23	39 60	24	35 10	26	29 25	23	36 00	24
June,	31 05	19	35 62	20	36 76	21	35 55	21	34 20	21	28 35	21	29 70	20	27 45	21	29 25	20	32 40	21
July,	34 20	21	29 70	20	36 75	22	37 35	22	40 05	22	29 25	21	25 80	19	30 15	22	30 15	20	32 40	21
August,	52 20	27	41 40	27	39 90	26	46 35	27	19 35	13	42 30	26	24 30	20	28 35	20	45 30	27	26 32	26
September,	49 50	24	26 50	15	35 70	23	35 55	25	41 40	24	36 45	22	31 50	22	35 10	25	37 80	22	28 80	22
October,	50 40	25	45 90	27	29 63	23	43 65	27	46 35	26	40 95	26	33 30	25	44 55	27	37 80	23	38 80	26
November,	40 50	22	40 95	23	41 59	22	41 85	24	43 75	24	42 30	23	39 25	22	37 35	24	34 20	22	33 75	24
December,	47 77	25	44 55	24	42 53	24	47 70	25	45 00	25	44 10	24	33 75	21	34 20	23	34 65	21	30 15	23
Total,	\$475 77	233	\$409 37	247	\$438 32	267	\$453 60	277	\$428 33	263	\$406 66	268	\$379 19	252	\$406 65	272	\$370 93	249	\$374 16	269

No. 5—NUMBER OF DAYS IN OPERATION DURING THE YEAR, 244.
Highest Individual Earnings.

1888.	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
January,	\$41 28	17	\$31 23	19	\$35 85	18	\$54 91	18	\$54 21	18	\$45 90	19	\$29 54	17	\$43 14	17	\$19 05	18	\$40 23	19
February,	30 75	21	37 85	19	33 37	21	59 08	18	49 61	21	50 49	20	53 43	22	30 69	19	27 36	21	45 99	21
March,	31 38	14	46 17	23	41 55	14	50 24	14	60 32	21	35 11	16	37 95	14	30 60	14	23 76	14	73 42	20
April,	17 67	8	41 21	27	23 95	8	49 35	16	75 43	24	26 34	11	26 78	11	6 18	3	20 23	8	45 13	13
May,	58 38	24	53 55	29	60 69	23	70 63	24	57 37	20	78 79	30	89 55	26	63 67	24	50 20	23	72 13	26
June,	55 91	24	51 10	23	63 94	24	74 31	25	45 41	18	63 42	24	61 36	23	64 56	24	48 55	24	69 63	24
July,	40 18	19	59 93	22	50 74	19	77 56	19	54 92	18	50 31	19	46 30	17	38 91	18	35 98	19	54 20	18
August,	48 52	23	54 70	23	45 07	18	77 35	19	59 08	18	26 29	13	47 25	19	49 14	21	43 24	19	63 63	21
September,	42 99	20	70 56	23	51 53	17	60 32	21	73 42	20	45 15	21	50 94	19	44 62	21	34 64	17	53 49	22
October,	58 05	26	82 15	29	67 40	26	75 45	24	45 12	16	50 67	24	69 30	22	61 73	25	47 00	22	53 49	22
November,	67 59	22	69 08	26	60 00	22	57 37	20	72 12	26	74 32	23	66 69	19	67 26	22	26 99	21	51 39	20
December,	59 79	20	44 59	16	50 91	20	45 40	18	69 62	24	54 02	20	57 2	19	59 40	20	27 81	18	54 34	21
Total,	\$552 49	238	\$642 12	237	\$695 05	30	\$741 96	236	\$716 63	244	\$605 76	240	\$642 11	228	\$559 90	228	\$414 81	224	\$673 22	253

Lowest Individual Earnings.

January,	\$27 30	16	\$35 43	19	\$11 67	12	\$14 70	18	\$17 55	17	\$19 77	18	\$25 71	17	\$24 57	19	\$19 27	16	\$19 28	16
February,	23 31	16	23 77	21	23 25	20	14 31	12	19 68	19	26 28	20	28 80	20	26 61	19	28 25	21	28 24	21
March,	19 83	13	14 28	11	15 36	13	35 18	17	15 69	13	30 72	14	1 44	1	31 83	14	7 86	13	7 86	13
April,	10 44	6	9 10	7	6 37	6	47 93	14	12 30	8	16 68	8			17 49	8	5 06	7	5 07	7
May,	45 94	24	34 61	7	23 20	19	39 97	24	25 93	22	45 96	23	37 17	24	50 74	23	24 88	23	24 87	23
June,	22 41	14	33 86	23	26 49	20	34 06	23	21 57	17	30 96	21	29 36	22	40 74	22	27 86	23	27 85	23
July,	24 32	16	25 97	18	20 00	15	9 77	11	16 17	14	23 71	16	26 15	18	34 44	18	20 04	18	20 05	18
August,	14 63	11	42 23	21	12 13	11	4 32	5	19 38	16	36 80	18	26 85	17	15 39	11	24 83	21	24 84	21
September,	19 99	14	35 08	19	22 67	16	15 43	14	17 22	14	23 84	20	24 41	17	39 67	19	28 41	20	28 41	20
October,	44 04	25	37 37	26	28 57	21	29 53	24	24 74	22	43 66	22	38 46	24	64 10	22	34 20	25	34 19	25
November,	32 64	19	30 72	18	15 87	15	33 74	22	25 73	14	29 23	18	23 37	14	60 39	24	29 49	22	29 49	22
December,	17 58	11	32 76	18	18 66	17	12 33	13	19 17	17	31 74	18	23 58	17	34 41	17	23 33	20	28 34	20
Total,	\$302 53	185	\$360 18	208	\$224 24	185	\$291 27	197	\$233 63	193	\$372 40	215	\$288 33	181	\$439 68	216	\$278 43	229	\$278 49	229

No. 6 —NUMBER OF DAYS IN OPERATION DURING THE YEAR, 288.
Highest Individual Earnings.

1888.	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
January,	\$56 52	20	\$52 60	22	\$51 60	22	\$49 45	22	\$49 02	22	\$45 01	20	\$38 52	22	\$37 80	21	\$36 00	20	\$26 00	20
February,	37 79	18	43 56	14	29 67	14	48 59	22	42 14	19	41 45	21	34 83	14	40 32	20	44 64	21	31 82	16
March,	43 80	26	45 34	26	53 16	26	38 49	25	33 79	21	35 69	26	15 72	14	41 42	24	43 80	26	26 31	18
April,	45 26	20	40 33	21	31 59	21	32 35	21	38 75	20	31 59	21	35 10	21	31 85	20	43 26	20	36 37	21
May,	47 52	23	43 56	22	36 63	23	40 59	22	49 92	22	37 12	23	32 46	21	40 47	23	47 52	23	35 67	23
June,	30 33	19	26 35	21	29 94	20	26 05	20	29 29	20	29 00	21	24 65	19	26 97	21	30 38	19	25 23	20
July,	35 25	21	35 63	22	22 73	16	34 09	22	38 04	21	28 62	20	24 95	19	32 63	23	28 44	18	28 98	20
August,	32 67	18	28 05	18	17 05	11	21 20	14	29 43	20	24 57	18	25 92	21	26 07	17	29 88	16	23 89	16
September,	35 91	23	35 37	24	28 62	22	28 69	18	27 81	21	40 42	24	38 34	21	35 37	24	32 13	22	29 00	21
October,	43 53	24	42 12	23	39 08	20	38 34	22	36 45	23	36 09	18	31 26	19	29 48	20	31 59	20	27 83	20
November,	36 03	18	36 11	20	52 15	24	44 22	21	45 84	24	43 56	23	43 20	21	45 94	24	39 60	23	35 38	24
December,	37 70	25	48 61	25	43 50	24	39 44	24	40 31	24	38 61	25	29 29	19	41 43	22	45 50	22	39 44	24
Total,	\$485 33	255	\$477 68	264	\$435 78	243	\$441 50	253	\$443 33	257	\$432 74	260	\$374 24	238	\$429 70	260	\$454 74	250	\$375 92	243

Lowest Individual Earnings

1888.	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
January,	\$30 60	20	\$35 75	22	\$38 43	21	\$29 88	20	\$24 48	22	\$37 08	20	\$35 11	20	\$23 04	15	\$37 44	20	\$31 60	23
February,	29 52	22	25 20	18	27 26	19	24 84	18	21 60	19	36 72	19	33 84	17	27 72	16	34 20	21	33 81	22
March,	27 18	23	19 55	16	19 60	16	21 85	18	25 51	2.	45 14	25	38 20	25	25 20	20	31 20	22	39 5	25
April,	21 06	20	24 87	18	20 79	20	25 11	17	20 25	18	31 59	20	31 86	21	29 43	21	28 35	20	32 39	21
May,	25 23	22	25 68	22	25 40	22	29 87	23	21 17	16	32 46	22	35 67	23	22 11	17	37 12	23	37 12	24
June,	21 26	20	24 65	22	25 81	22	25 23	22	24 07	18	24 65	20	29 94	21	21 75	20	26 97	20	26 35	19
July,	24 03	22	30 93	24	26 30	20	28 98	24	22 54	21	27 50	22	24 95	26	19 78	19	28 56	22	24 62	22
August,	32 13	23	29 43	23	23 89	20	19 58	18	37 80	23	25 92	23	25 63	20	24 57	18	22 14	17	24 57	13
September,	27 81	22	22 68	18	24 41	18	38 62	24	35 91	24	20 25	18	35 37	24	32 13	23	30 78	22	27 81	22
October,	27 00	21	23 22	19	19 49	19	23 31	20	25 92	18	27 83	20	31 26	19	27 50	17	29 48	20	26 66	16
November,	23 40	16	28 39	17	30 45	23	27 33	21	33 30	23	35 34	24	31 03	21	30 80	20	25 31	23	36 63	21
December,	35 67	23	26 33	22	29 87	24	31 35	23	26 40	17	43 21	25	33 01	25	30 61	22	34 22	22	31 82	13
Total,	\$325 09	254	\$313 15	241	\$304 85	244	\$316 35	246	\$325 25	241	\$387 73	258	\$388 92	256	\$314 64	238	\$375 77	252	\$331 02	256

No. 7.—NUMBER OF DAYS IN OPERATION DURING THE YEAR, 291.
Highest Individual Earnings.

1888.	1ST MAN.		2D MAN.		3D MAN.		4 H MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
January,	\$51 50	23	\$37 25	23	\$17 20	21	\$53 80	22	\$16 30	20	\$15 60	19	\$14 90	23	\$31 00	21	\$62 20	23	\$51 10	23
February,	37 31	23	42 31	23	43 86	20	46 15	19	54 52	21	71 23	20	45 50	23	46 58	23	42 15	20	61 74	23
March,	53 76	24	42 29	24	41 00	21	68 33	22	54 82	23	79 20	25	51 68	24	56 74	24	43 00	19	22 88	24
April,	29 52	21	41 41	21	41 16	19	42 11	21	34 11	21	36 58	31	32 06	21	30 71	17	27 69	21	35 52	21
May,	29 70	19	37 18	21	46 16	20	41 58	20	22 96	19	25 82	18	26 86	21	27 72	19	22 22	20	33 48	19
June,	29 38	17	43 81	18	34 34	17	53 31	17	30 80	24	31 27	21	32 92	19	33 14	20	30 21	19	38 19	17
July,	39 18	20	43 90	21	50 00	19	40 41	21	40 80	21	31 22	18	45 80	21	46 20	22	37 46	20	59 11	20
August,	43 39	22	33 75	21	41 20	20	44 39	22	29 06	19	39 00	22	40 25	22	38 40	20	43 66	22	47 66	22
September,	43 47	20	33 25	20	49 50	19	50 03	20	29 61	23	49 72	23	46 06	20	47 66	19	51 62	20	61 85	20
October,	53 62	27	45 97	27	62 41	24	54 91	23	38 10	20	50 66	20	62 44	24	61 90	24	33 06	24	51 53	24
November,	49 93	25	42 80	23	65 00	21	59 33	21	42 46	18	42 05	20	60 36	24	60 36	23	42 90	20	49 33	22
December,	61 33	21	42 71	21	62 20	20	58 86	20	51 38	25	50 68	22	56 74	20	66 14	20	67 83	24	56 22	23
Total,	\$525 14	265	\$186 55	261	\$591 06	217	\$596 43	248	\$174 95	257	\$533 03	250	\$552 57	265	\$576 58	252	\$517 00	252	\$568 11	258

Lowest Individual Earnings.

1888.	1ST MAN.		2D MAN.		3D MAN.		4 H MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
January,	\$26 11	23	\$20 40	20	\$39 00	20	\$27 20	19	\$34 20	21	\$18 21	14	\$18 10	22	\$12 30	24	\$37 80	20	\$28 21	25
February,	34 97	23	23 80	22	20 33	16	32 14	21	34 59	20	32 86	17	30 59	22	29 52	23	39 18	22	35 20	21
March,	27 20	24	31 04	21	27 01	21	32 22	20	34 00	20	33 30	21	46 76	21	23 26	20	41 44	23	30 25	21
April,	26 88	21	22 16	21	20 73	19	27 74	19	25 31	19	14 26	15	32 86	21	21 82	19	27 04	20	30 70	19
May,	24 64	19	19 84	19	25 20	21	15 92	12	19 08	17	12 32	19	22 90	20	28 41	21	26 98	19	30 44	22
June,	29 32	19	17 86	20	14 20	9	14 80	9	18 32	20	17 10	12	30 27	20	18 12	11	30 54	18	18 58	20
July,	27 64	20	26 90	20	13 54	12	26 33	20	24 72	20	25 00	21	40 81	19	30 88	20	24 08	20	31 86	17
August,	29 22	21	27 52	22	21 40	21	29 16	21	29 14	21	23 64	20	29 30	22	30 98	22	20 66	20	30 48	21
September,	25 74	19	23 90	20	12 50	10	31 46	22	32 76	24	21 92	18	41 86	21	22 78	17	38 40	19	29 12	18
October,	36 54	20	35 16	24	28 92	21	34 54	23	37 60	24	25 54	24	49 18	23	43 91	24	38 86	21	26 16	24
November,	38 22	18	30 56	21	21 60	20	34 98	21	41 60	25	20 10	10	47 00	22	55 12	25	45 91	18	28 92	18
December,	31 28	20	25 98	20	35 00	23	33 44	20	39 50	22	16 50	12	53 44	25	47 32	24	40 88	20	33 76	24
Total,	\$557 76	247	\$305 12	253	\$267 46	213	\$339 96	227	\$370 75	253	\$560 47	212	\$473 07	266	\$397 48	250	\$409 80	240	\$553 78	250

No. 8.—NUMBER OF DAYS IN OPERATION DURING THE YEAR, 235.
Highest Individual Earnings.

	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
1888.																				
January,	\$76 49	23	\$61 55	22	\$63 39	20	\$65 44	22	\$61 75	22	\$62 90	21	\$19 51	21	\$50 50	17	\$27 99	21	\$13 02	20
February,	51 15	50	66 62	23	56 70	17	59 32	25	60 57	25	31 00	17	37 37	18	46 31	20	44 77	20	43 24	22
March,	58 02	23	58 17	21	50 09	17	62 27	23	41 77	21	47 04	19	60 82	17	55 17	17	46 48	22	35 81	22
April,	21 45	10	26 62	10	20 87	6	30 82	11	25 21	10	23 97	9	27 67	11	31 39	10	21 60	10	11 70	9
May,	45 50	15	52 87	14	49 29	16	32 50	13	49 50	15	41 72	15	31 45	15	23 50	12	24 02	16	24 85	15
June,	37 22	14	37 81	13	32 41	12	25 11	12	34 67	13	32 93	12	25 85	13	18 56	8	19 46	13	20 96	13
July,	41 40	16	40 41	16	38 04	12	34 94	17	34 16	16	32 19	13	31 91	14	23 24	11	20 80	15	22 36	15
August,	40 97	20	40 86	20	31 94	18	38 88	20	40 95	20	33 99	17	33 32	16	19 22	17	21 95	14	21 76	18
September,	50 84	20	53 29	20	53 92	20	47 36	18	53 19	22	32 83	15	45 48	19	19 62	15	25 31	17	30 38	18
October,	64 01	24	55 97	23	60 96	22	54 10	23	45 09	25	61 34	24	50 46	23	35 33	22	33 41	20	38 26	23
November,	56 09	21	47 67	20	57 26	18	40 85	20	33 98	21	52 90	21	41 44	19	39 41	20	51 22	18	35 62	21
December,	53 80	24	46 86	19	50 24	20	46 87	19	40 24	23	74 05	24	47 59	20	36 27	20	58 29	18	41 18	22
Total,	\$599 94	230	\$591 73	221	\$567 21	193	\$529 46	223	\$527 11	231	\$526 36	207	\$185 93	206	\$398 63	192	\$378 36	204	\$372 14	218

Lowest Individual Earnings.

	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
January,	\$42 66	18	\$40 94	22	\$40 79	22	\$36 83	20	\$30 98	18	\$29 83	19	\$25 47	13	\$31 27	18	\$28 26	18	\$27 91	20
February,	33 32	23	35 61	23	36 50	22	36 22	23	28 28	20	34 80	22	35 55	18	32 69	23	25 80	20	29 88	23
March,	28 19	21	33 21	21	29 47	22	32 29	24	24 99	18	21 96	20	19 51	16	25 29	20	24 36	22	23 29	17
April,	11 61	9	13 12	11	9 83	7	16 01	9	9 75	8	10 17	9	14 53	10	11 45	9	10 28	9	13 45	8
May,	23 85	15	19 90	15	25 53	15	20 65	15	20 65	15	22 05	14	20 59	12	20 07	15	20 14	15	16 35	13
June,	15 12	13	16 00	13	15 84	12	15 92	13	15 16	13	16 40	12	15 10	12	14 18	12	14 20	11	15 84	14
July,	21 40	15	23 24	15	20 66	14	23 20	11	23 90	15	21 22	13	19 92	13	23 06	14	22 20	16	19 94	14
August,	23 08	17	21 56	16	23 74	17	21 56	16	26 14	16	19 62	16	23 14	17	21 46	27	21 51	18	16 76	15
September,	32 44	18	30 34	19	30 18	17	33 36	18	29 38	19	27 91	17	29 38	16	29 32	18	29 40	16	24 76	16
October,	45 22	23	41 48	24	38 08	23	39 74	23	38 06	23	33 18	23	41 24	23	36 26	22	34 00	20	34 88	23
November,	44 50	21	35 68	21	29 54	18	37 90	21	34 55	21	30 38	19	30 82	20	26 94	18	30 88	18	32 38	21
December,	39 96	22	40 30	24	52 02	24	36 00	23	40 04	24	46 16	23	26 22	24	29 78	50	36 04	21	22 92	19
Total,	\$361 35	215	\$351 28	224	\$352 18	213	\$349 68	221	\$321 92	200	\$318 51	207	\$31 47	199	\$301 77	206	\$97 10	204	\$282 36	203

No. 9.—NUMBER OF DAYS IN OPERATION DURING THE YEAR, 185.
Highest Individual Earnings.

	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
1858.																				
January.	\$41 87	9	\$6 48	6	\$6 21	8	\$6 08	7	\$5 91	6	\$7 65	7	\$20 27	9	\$5 88	5	\$6 99	7	\$9 21	8
February.	43 20	5	26 98	5	57 45	5	12 68	5	12 33	5	9 21	5	10 26	5	12 21	5	7 11	5	6 27	5
March.	89 59	12	41 07	12	42 07	12	24 99	12	22 32	10	18 78	10	33 12	12	32 01	12	24 15	11	31 29	12
April.	51 09	9	30 41	9	16 14	9	14 25	7	16 83	8	16 35	7	13 89	9	17 75	9	22 86	8	10 68	7
May.	66 51	19	50 50	19	32 04	17	48 78	19	35 47	19	36 03	18	22 27	17	36 98	17	32 94	15	25 19	16
June.	71 40	23	45 93	23	50 84	23	49 14	19	47 28	23	45 79	21	4 16	22	31 22	20	49 14	22	34 32	20
July.	53 86	19	54 03	19	34 97	18	34 01	17	23 08	18	34 19	17	30 52	20	39 61	19	24 58	16	37 15	19
August.	70 48	20	44 60	20	46 08	20	43 04	20	44 16	20	50 42	20	35 33	20	32 03	17	39 29	23	41 48	20
September.	67 66	17	33 94	17	47 28	17	35 65	17	36 40	17	36 55	17	38 46	19	32 03	17	35 31	17	30 45	17
October.	73 19	19	44 38	19	33 44	19	38 15	19	40 08	19	38 74	19	26 45	17	31 02	19	32 78	19	40 69	19
November.	78 19	17	41 76	17	34 48	17	38 78	17	25 97	17	31 35	17	34 50	17	39 32	17	33 20	17	34 48	17
December.	57 67	16	48 32	16	37 38	16	33 24	18	34 41	16	37 50	16	37 29	16	26 75	16	35 52	16	33 25	16
Total.	\$800 62	185	\$471 40	182	\$413 39	181	\$279 97	175	\$364 24	178	\$362 26	174	\$345 34	180	\$349 63	174	\$343 87	173	\$334 46	176

Lowest Individual Earnings

	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
1858.																				
January.	\$8 56	9	\$1 35	9	\$7 98	9	\$3 81	9	\$3 81	9	\$5 76	9	\$5 25	9	\$3 61	9	\$5 16	9	\$2 01	9
February.	8 82	4	4 98	4	5 04	5	4 02	5	8 61	5	4 08	5	6 15	5	2 91	4	6 33	5	8 79	5
March.	7 29	9	12 12	8	11 52	7	15 38	10	10 56	7	4 47	8	18 54	16	19 17	11	17 61	11	29 83	12
April.	17 60	7	5 04	5	6 57	6	8 61	8	13 32	7	14 49	9	7 35	8	12 60	8	11 49	9	14 67	6
May.	23 07	15	12 82	12	21 59	15	25 39	19	14 31	12	26 70	9	15 35	16	27 17	19	23 63	19	17 26	13
June.	17 61	14	15 67	14	20 61	17	23 53	23	24 24	20	27 85	23	27 22	23	24 27	23	28 25	23	30 35	22
July.	15 82	15	23 10	19	17 65	14	17 55	15	21 26	14	24 01	19	20 43	19	18 07	17	16 89	18	21 65	15
August.	15 82	17	23 60	17	19 50	17	21 39	17	23 40	17	23 60	17	21 35	17	21 20	17	18 70	17	25 25	15
September.	19 75	17	16 60	19	21 50	17	17 75	19	21 70	19	19 35	16	21 35	18	20 92	18	22 84	17	23 00	17
October.	16 35	16	17 55	17	15 90	15	17 50	15	17 35	14	14 61	14	20 33	15	17 61	14	18 11	18	19 60	16
November.	13 35	15	16 55	14	16 65	14	17 10	15	17 40	13	13 65	15	17 40	17	15 30	16	14 79	17	18 12	15
December.	15 43	16	15 16	16	18 23	16	8 09	15	16 54	14	14 19	15	16 85	16	16 42	16	13 47	16	17 45	15
Total.	464 47	157	\$167 54	154	\$182 77	152	\$184 45	170	\$192 50	151	\$192 17	169	\$193 40	171	\$199 25	170	\$203 31	179	\$238 04	164

No 10 —NUMBER OF DAYS IN OPERATION DURING THE YEAR, 192.

Highest Individual Earnings.

1888.	1-1 ST MAN.		2 ND MAN.		3 RD MAN.		4 TH MAN.		5 TH MAN.		6 TH MAN.		7 TH MAN.		8 TH MAN.		9 TH MAN.		10 TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
January,	\$95 00	23	\$95 00	24	\$98 00	24	\$85 00	24	\$79 00	24	\$79 00	24	\$49 00	24	\$71 00	24	\$76 00	24	\$76 00	24
February,	116 00	25	99 00	25	99 00	25	99 00	25	76 00	25	76 00	25	72 00	25	74 00	25	86 00	25	85 00	25
March,	90 00	24	91 00	26	81 00	26	81 00	26	103 00	26	101 00	26	72 00	20	90 00	26	70 00	20	70 00	20
April,	66 00	20	66 00	20	56 00	20	76 00	20	51 00	9	42 08	9	62 00	11	45 00	9	39 00	9	39 00	9
May,	76 00	24	79 00	24	79 00	24	79 00	24	69 00	13	60 00	13	53 00	13	76 00	13	47 00	13	46 00	13
June,	80 00	24	77 00	24	77 00	24	77 00	24	49 00	11	49 00	11	59 07	11	56 00	11	53 00	11	56 00	11
July,	81 00	24	82 00	24	75 00	24	75 00	24	47 00	9	47 00	9	63 00	9	40 00	9	33 00	9	33 00	9
August,	81 00	24	81 00	24	72 00	24	72 00	24	49 00	10	49 00	10	69 00	10	40 00	10	57 00	10	58 00	10
September,	120 00	25	120 00	25	120 00	25	130 00	25	48 00	13	48 00	13	55 00	13	43 00	13	63 00	13	64 00	13
October,	96 00	24	96 00	24	96 00	24	96 00	24	75 00	15	73 00	15	58 00	15	73 00	15	49 00	15	48 00	15
November,	93 00	24	96 00	24	96 00	24	96 00	24	80 00	19	80 00	19	67 00	19	75 00	19	53 00	19	50 00	19
December,	78 00	24	78 00	24	78 00	24	78 00	24	64 00	24	63 00	24	83 00	24	68 00	24	84 00	24	81 00	24
Total,	\$1 675 00	256	\$1 075 00	286	\$1 047 00	288	\$1 034 00	288	\$791 00	198	\$789 00	198	\$762 00	194	\$756 00	198	\$715 00	192	\$706 00	192

Lowest Individual Earnings.

1888.	1-1 ST MAN.		2 ND MAN.		3 RD MAN.		4 TH MAN.		5 TH MAN.		6 TH MAN.		7 TH MAN.		8 TH MAN.		9 TH MAN.		10 TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
January,	\$39 00	24	\$39 00	24	\$42 00	24	\$38 00	24	\$46 00	24	\$31 00	24	\$23 00	24	\$23 00	24	\$33 00	24	\$20 00	24
February,	44 00	24	38 00	25	45 00	25	44 00	25	52 00	25	31 00	25	32 00	25	22 00	25	32 00	25	21 00	25
March,	36 00	20	40 00	20	39 00	20	37 00	20	27 00	20	31 00	20	30 00	20	23 00	20	33 00	20	14 00	20
April,	19 00	9	17 00	9	17 00	9	15 00	9	17 00	9	11 00	9	6 00	4	6 00	4	16 00	9	13 00	9
May,	28 00	13	23 00	13	25 00	13	22 00	13	22 00	13	24 00	13	20 00	13	21 00	13	14 00	13	19 00	13
June,	27 00	11	21 00	11	28 00	11	22 00	11	23 00	11	22 00	11	13 00	11	17 00	11	19 00	11	12 00	11
July,	17 00	9	20 00	9	17 00	9	18 00	9	17 00	9	12 00	9	3 60	2	34 00	9	12 00	9	10 00	9
August,	22 00	10	29 00	10	23 00	10	23 00	10	21 00	10	17 00	10	20 00	10	19 00	10	14 00	10	15 00	10
September,	26 00	18	21 00	13	31 00	13	23 00	13	25 00	13	23 00	13	25 00	13	25 00	13	25 00	13	18 00	13
October,	33 00	15	35 00	15	39 00	15	24 00	15	29 00	15	31 00	15	29 00	15	27 00	15	10 00	6	22 00	15
November,	46 00	19	33 00	19	43 00	19	35 00	19	30 00	19	33 00	19	33 00	19	23 00	19	30 00	19	20 00	19
December,	44 00	24	41 00	24	31 00	24	29 00	24	30 00	24	28 00	24	82 00	24	25 00	24	23 00	24	19 00	24
Total,	\$380 00	192	\$276 00	192	\$375 00	192	\$333 00	192	\$339 00	192	\$257 00	192	\$265 00	180	\$205 00	187	\$259 00	182	\$200 00	192

No 11.—NUMBER OF DAYS IN OPERATION DURING THE YEAR, 278.
Highest Individual Earnings

	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
1888																				
January..	\$67 79	23	\$88 65	22	\$63 86	25	\$63 23	22	\$63 90	23	\$63 78	26	\$57 17	24	\$61 58	21	\$51 24	20	\$37 60	22
February,	50 71	17	49 17	17	57 21	25	57 11	24	45 90	16	50 09	21	52 41	25	46 58	17	43 13	17	40 50	15
March, . .	33 92	19	33 48	20	65 10	23	55 35	23	35 13	39	65 72	22	65 72	23	40 86	20	47 90	20	35 13	20
April, . . .	43 30	23	47 81	24	48 64	17	54 00	17	43 24	23	40 37	14	43 99	15	52 44	24	46 47	23	42 41	24
May,	72 29	26	61 98	26	33 50	18	21 87	19	55 08	26	40 84	20	39 43	26	52 45	25	58 31	26	53 45	25
June,	66 15	21	56 71	21	47 25	23	38 48	24	52 25	21	48 67	24	40 61	22	47 13	21	45 32	20	47 78	20
July,	75 12	22	44 83	19	57 28	26	47 79	24	50 21	22	40 51	22	60 95	26	44 80	22	43 00	20	46 17	21
August, . . .	90 2	23	73 91	27	45 36	20	34 83	17	82 21	27	64 92	23	47 25	19	62 37	24	52 92	21	76 54	27
September,	91 20	25	96 39	25	50 75	22	31 99	15	63 72	24	43 57	20	53 39	22	52 31	25	51 33	24	61 97	24
October, . . .	67 10	27	69 93	27	70 06	26	82 21	25	63 98	27	55 28	25	53 33	22	47 80	21	59 67	23	58 91	25
November, . .	65 21	24	63 84	22	65 53	24	76 14	25	57 51	24	54 63	25	54 81	25	55 89	25	51 17	23	55 53	24
December, . .	50 09	24	63 73	24	65 60	26	71 28	23	56 70	25	63 65	25	53 70	26	63 28	25	57 49	24	53 39	25
Total,	\$781 12	274	\$735 53	274	\$673 49	275	\$644 33	263	\$669 03	278	\$635 08	270	\$625 87	269	\$628 18	270	\$612 25	265	\$632 44	272

Lowest Individual Earnings.

January,	\$58 50	21	\$57 35	23	\$52 22	22	\$44 10	17	\$54 45	23	\$50 40	22	\$37 35	17	\$51 19	20	\$48 33	24	\$37 33	22
February, . . .	47 70	17	41 40	17	39 15	16	19 35	9	39 15	16	39 60	17	33 30	14	38 07	21	37 67	21	24 30	15
March,	30 29	16	25 06	15	36 13	20	31 49	18	31 47	19	32 12	19	31 90	18	43 63	21	40 05	20	26 40	18
April,	40 09	23	48 34	23	35 47	22	33 21	19	37 67	24	42 52	24	33 07	21	41 40	16	35 10	17	29 57	19
May,	51 84	26	59 01	25	53 60	24	36 46	19	43 58	24	47 79	25	42 34	21	34 38	29	34 79	19	40 49	25
June,	19 85	8	43 34	20	40 80	19	42 52	19	40 10	20	41 65	20	42 12	20	41 71	24	33 33	22	33 61	20
July,	36 26	19	42 52	22	39 29	21	33 07	13	42 93	19	48 94	22	42 92	22	48 60	24	43 74	25	25 15	20
August,	63 10	27	55 89	26	55 32	25	27 26	17	53 46	24	60 54	26	49 81	25	48 33	19	4 03	34	29 16	21
September, . .	50 63	24	38 68	18	40 69	20	38 83	20	43 74	24	54 03	24	42 93	23	43 74	21	36 53	21	32 40	28
October,	48 60	23	60 35	27	47 79	25	2 93	22	49 35	26	62 02	27	49 04	25	45 39	25	32 81	19	34 87	23
November, . . .	51 86	22	53 46	24	47 72	22	49 60	22	52 65	25	53 16	25	45 85	21	42 12	22	42 12	24	30 98	21
December, . . .	31 55	15	51 43	23	34 23	13	39 28	17	30 40	15	43 65	24	44 12	22	41 31	22	50 62	25	27 91	19
Total,	\$325 30	241	\$377 43	263	\$524 81	250	\$452 55	217	\$521 93	259	\$581 42	276	\$498 45	248	\$469 74	255	\$486 67	239	\$376 10	251

No 12 —NUMBER OF DAYS IN OPERATION DURING THE YEAR, 278.
Highest Individual Earnings.

1888.	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
January,	\$41 80	16	\$61 88	22	\$59 15	22	\$54 40	22	\$64 85	23	\$64 57	25	\$63 70	23	\$61 28	23	\$55 33	23	\$59 50	23
February,	55 45	17	38 76	16	45 40	17	38 42	17	40 70	17	67 72	25	43 65	17	47 40	17	38 42	17	42 70	17
March,	51 33	20	34 52	20	36 99	20	37 73	20	34 34	19	59 85	23	36 93	20	34 15	20	31 79	20	36 64	20
April,	48 52	24	40 09	24	37 80	21	40 01	24	26 79	15	44 10	17	45 01	24	46 15	23	42 33	24	41 89	23
May,	51 09	26	52 94	23	50 09	26	50 80	23	49 32	26	24 53	14	41 90	22	56 05	23	49 27	22	49 45	26
June,	40 64	21	51 47	21	41 98	21	50 80	21	40 86	21	43 48	24	31 50	17	58 90	21	50 13	21	42 21	21
July,	41 89	22	43 33	22	44 61	22	34 31	17	42 66	22	50 09	26	41 89	22	42 93	22	41 31	21	30 24	17
August,	53 39	27	64 40	26	60 17	27	71 27	27	68 47	27	37 81	19	59 54	27	54 68	26	60 51	27	59 85	27
September,	56 07	25	56 52	25	59 22	25	58 13	25	54 34	24	43 15	22	52 23	24	54 23	24	52 24	5	54 81	25
October,	67 70	26	66 33	27	70 56	27	70 88	27	64 01	26	61 11	27	67 73	27	54 92	26	63 59	27	59 52	23
November,	67 14	25	61 90	23	64 58	25	72 90	25	66 48	25	54 50	25	61 43	25	56 86	25	55 99	25	56 70	25
December,	71 82	25	68 86	23	61 73	22	59 94	25	66 84	25	63 32	27	63 67	25	45 29	24	52 25	22	59 22	25
Total,	\$651 37	274	\$341 03	272	\$632 28	275	\$640 59	273	\$619 66	270	\$614 28	274	\$613 66	273	\$612 84	274	\$593 16	274	\$582 73	275

Lowest Individual Earnings.

1888.	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
January,	\$29 34	13	\$46 58	19	\$47 60	22	\$55 30	23	\$57 05	23	\$54 60	22	\$43 86	19	\$51 60	21	\$63 24	23	\$54 95	23
February,	34 58	16	38 38	16	36 72	17	43 05	17	42 35	17	40 50	16	40 19	17	41 14	17	39 44	17	41 3	17
March,	29 34	19	33 34	20	29 63	19	32 77	8	36 64	19	33 65	20	29 35	19	31 19	20	31 18	20	36 33	20
April,	31 73	23	41 61	24	40 09	24	31 13	18	42 51	23	41 85	23	40 39	24	38 83	22	41 61	24	40 32	22
May,	51 43	26	44 93	21	42 23	22	43 13	25	41 90	22	48 19	26	47 44	23	49 88	23	50 33	23	47 25	25
June,	36 45	19	48 35	20	44 68	21	37 13	19	41 89	21	37 80	20	50 49	21	49 96	21	50 19	21	40 63	21
July,	34 04	19	23 90	13	35 23	21	40 00	21	39 70	21	40 63	22	38 07	22	36 43	20	41 77	22	40 32	21
August,	51 63	25	43 75	23	50 62	25	38 11	20	53 08	26	43 39	21	46 79	26	48 73	25	59 16	27	53 28	26
September,	44 56	23	47 59	22	38 47	22	50 71	24	38 74	19	56 70	25	43 79	25	49 88	24	49 40	25	57 01	25
October,	4 50	23	57 22	25	21 06	11	56 38	27	51 66	20	55 75	27	56 29	27	56 00	27	53 05	27	59 34	25
November,	33 07	22	43 32	21	45 15	22	59 22	24	23 00	10	46 83	24	49 81	25	47 73	22	48 39	21	52 29	24
December,	32 00	19	45 23	20	43 33	25	40 95	18	33 75	16	44 85	23	45 21	25	52 17	24	38 47	20	63 63	25
Total,	\$453 67	247	\$517 80	244	\$474 81	251	\$532 93	254	\$510 27	237	\$547 71	269	\$534 63	273	\$553 57	266	\$586 23	279	\$582 15	273

No. 13.—NUMBER OF DAYS IN OPERATION DURING THE YEAR, 2481-2.
Highest Individual Earnings.

	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
1888.																				
January,	\$36 41	20	\$39 22	21	\$21 69	16	\$44 49	23	\$47 23	24	\$47 72	25	\$41 07	22	\$48 54	22	\$56 93	25	\$67 65	23
February,	21 64	15	22 12	17	21 06	17	30 94	13	23 97	15	20 54	13	37 52	19	42 84	21	33 11	20	34 00	20
March,	30 92	20	47 35	21	52 08	20	44 78	22	57 20	22	49 20	21	59 20	22	32 89	18	31 10	15	56 00	25
April,	50 20	21	45 20	21	44 04	23	55 00	25	50 20	21	34 40	19	74 60	23	47 00	24	36 17	17	46 40	22
May,	61 56	25	74 16	27	51 58	26	34 16	22	63 28	25	84 10	27	64 20	22	52 12	26	47 40	26	82 04	27
June,	21 06	11	41 28	19	39 33	17	53 16	25	30 99	18	10 96	5	60 62	23	47 31	22	61 78	24	70 04	24
July,	7 37	4	37 24	16	35 11	17	64 56	25	11 50	5	28 48	13	43 48	19	15 29	8	42 47	17	61 20	18
August,	52 31	25	53 20	22	53 69	23	53 26	24	69 32	18	52 13	22	38 27	22	22 00	18	36 48	17	68 81	23
September,	61 40	19	44 77	19	31 91	22	56 41	17	37 03	20	40 98	22	42 67	21	47 23	18	37 22	17	24 76	12
October,	30 10	20	32 13	20	29 54	22	52 20	24	68 47	22	30 29	17	33 73	23	45 20	22	31 25	20	49 76	19
November,	57 49	24	53 55	22	41 12	24	47 76	21	60 46	26	31 35	18	54 15	25	43 20	25	58 22	22	40 38	20
December,	27 29	18	26 22	17	30 64	19	61 57	20	63 37	22	35 78	13	66 10	22	5 40	5	64 09	23	57 29	23
Total,	\$437 75	222	\$516 45	242	\$461 79	246	\$538 29	269	\$386 00	238	\$462 93	213	\$620 60	263	\$449 06	229	\$526 22	244	\$658 33	256

Lowest Individual Earnings.

January,	\$35 16	24½	\$36 97	25½	\$36 25	25	\$35 88	24½	\$33 71	23½	\$33 71	23½	\$30 45	21	\$30 45	21	\$31 90	22	\$32 62	22½
February,	23 92	16½	25 01	17½	23 92	16½	24 28	16½	20 30	14	20 30	14	15 58	10½	15 58	10½	23 92	16	23 92	16½
March,	33 35	23	34 80	24	34 07	23½	31 90	22	33 62	22½	33 62	22½	33 35	23	33 35	23	31 90	22	30 81	21½
April,	31 17	21½	35 16	24½	31 17	21½	32 26	22½	15 95	11	15 95	11	31 90	22	31 90	22	31 17	21½	31 53	21½
May,	35 52	24½	34 43	25½	31 90	22	35 83	24½	31 43	23½	31 43	23½	36 25	25	36 25	25	24 65	17	35 16	24½
June,	34 80	24	42 77	29½	34 80	24	40 28	27½	39 15	27	34 89	24	38 06	26½	33 06	26½	33 35	23	29 72	20½
July,	29 00	20	30 45	21	29 00	20	25 37	17	29 00	20	29 00	20	27 91	19½	27 91	19½	25 37	17½	29 00	20
August,	34 07	23½	36 97	25	34 07	23	31 90	22	34 43	23½	34 07	23½	34 67	23½	34 67	23½	32 62	22½	27 91	19½
September,	31 53	21½	31 53	21½	31 53	21½	31 53	21½	29 36	20½	32 98	22½	82 98	22½	32 63	22½	28 63	19½	30 81	21½
October,	34 07	23	34 07	23½	31 53	21½	31 96	22	32 62	22½	35 88	24½	30 08	22½	35 88	24½	35 88	24½	35 52	24½
November,	34 07	23½	33 35	23	31 90	22	34 80	24	32 62	22½	32 62	22½	30 45	21	30 45	21	27 18	18½	31 90	22
December,	30 08	21½	29 00	20	30 45	21	31 90	22	29 00	15	29 00	20	30 45	21	30 45	21	29 00	20	31 53	21½
Total,	\$386 74	267½	\$404 51	279	\$380 59	262½	\$337 83	267½	\$375 87	262	\$365 36	252	\$371 53	258½	\$377 33	260½	\$355 57	245½	\$370 43	255½

No 14 —NUMBER OF DAYS IN OPERATION DURING THE YEAR, 274 3-4.
Highest Individual Earnings.

	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
1888.																				
January,	\$69 02	25	\$58 80	24	\$43 84	21	\$58 90	24	\$60 29	25½	\$63 40	25	\$46 98	21	\$62 12	22	\$55 57	22	\$60 95	23
February,	48 01	20	52 25	19½	44 15	19	53 19	20	24 56	12	53 66	20½	51 07	13	39 78	15	37 24	14	46 53	18
March,	55 81	20	53 18	19	48 07	16	48 00	20	50 01	17½	49 00	18	59 12	20	44 11	15	52 11	19	47 29	18
April,	61 27	24	63 81	24	56 01	23	61 90	21	55 86	23	61 95	23½	46 00	24	49 18	21	50 21	20	58 12	24
May,	47 30	18	46 36	19	38 39	21	53 28	21	51 18	17	74 66	26	68 59	26	56 60	29	38 08	19	58 00	26
June,	58 29	22	51 09	18	60 54	22	48 17	22	54 65	22	43 18	19	41 00	22	51 00	22	49 47	19	34 81	10
July,	43 04	16	47 82	17½	44 55	16½	31 20	13	41 66	15	37 19	17	48 12	17½	41 90	15	40 73	16	44 62	17
August,	60 12	22½	53 94	21	50 10	18	57 94	23	55 12	21	51 30	20½	61 08	23	60 23	23½	54 80	19	62 10	23
September,	54 87	19	46 82	17½	52 50	20	51 47	18½	41 03	16½	32 48	12	54 50	19	38 02	14	48 75	18½	53 21	19
October,	63 45	24	38 40	14	67 19	25	54 61	22	70 80	24	62 26	25½	71 35	25	53 75	23	63 87	23	69 03	24
November,	61 07	23	59 85	21	61 00	24	51 44	20	58 40	22½	61 17	24	45 61	19	50 07	20	51 20	21	59 06	21½
December,	56 23	20	52 20	18	56 28	23	69 07	24½	50 36	21	58 12	23	59 03	24	59 31	21	61 01	22½	47 63	20
Total,	\$683 57	263½	\$627 51	232½	\$625 60	248½	\$639 17	250	\$613 92	237½	\$651 37	254	\$672 35	258½	\$611 97	230	\$602 19	233	\$641 25	244½

Lowest Individual Earnings.

January,	\$35 06	21	\$42 18	22½	\$53 08	24½	\$49 59	14	\$27 50	20	\$23 27	15	\$21 83	13	\$24 31	18	\$29 31	20½	\$6 99	6
February,	14 61	8	25 01	17	22 50	20	11 40	7	20 66	14	17 63	11	24 15	17	14 62	13	20 89	16	24 06	14
March,	34 28	19	31 82	20	21 81	18½	18 11	12	32 16	17	33 47	20	29 25	18	27 30	14	29 48	19	31 20	16
April,	33 17	21	41 08	23	24 62	21	21 11	16	34 28	21	35 31	22½	29 75	17	35 70	21	32 01	16	32 51	20
May,	39 81	23	28 62	26	21 14	22	29 45	19	1 92	20	44 18	25	36 30	23	33 30	18	34 65	21	40 39	26
June,	23 89	17	12 78	8	37 12	20	22 27	11½	24 97	18½	29 26	18	26 25	14	25 60	13	21 62	12	17 89	11
July,	18 21	10	23 51	14	23 28	17	12 07	11	8 43	6	24 37	16	31 91	17	17 15	12	20 38	15	25 87	17
August,	26 45	16	39 81	19½	34 12	23	24 93	19	35 06	21	35 43	20	34 68	19	27 28	15	34 29	18	29 31	21
September,	31 25	17	37 46	20	31 76	19	26 81	16½	25 09	18½	17 15	12	26 12	19	28 05	17	19 51	12	22 11	16
October,	39 48	29	26 40	21	43 31	25	27 50	20	37 53	23	20 81	18	34 43	22½	16 87	21	29 56	21½	32 09	20
November,	44 53	23	31 32	23	30 31	24	18 96	12	30 06	16½	31 21	18	24 61	20½	20 13	16	31 93	21	17 79	12
December,	31 93	18	58 43	16	34 43	23½	14 06	13½	34 42	20	27 65	14	31 93	18	23 18	14	23 35	16	18 97	19
Total,	\$382 67	213	\$378 48	230	\$377 48	257½	\$248 85	173½	\$342 08	215½	\$344 74	218	\$351 29	218	\$233 49	195	\$330 43	208	\$309 18	157

No. 15.—NUMBER OF DAYS IN OPERATION DURING THE YEAR, 269 1-4.
Highest Individual Earnings.

1888.	1ST MAN.		2 MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH M. N.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
January,	\$55 30	24	\$72 12	26	\$51 24	22	\$67 30	25	\$48 91	23	\$53 27	24	\$63 25	26	\$53 54	21	\$53 20	24	\$52 06	24
February,	39 44	15	30 06	16	36 94	16	40 06	17	24 98	12	31 62	16	65 98	20	36 01	16	37 55	17	42 00	17
March,	36 95	14	41 41	20	40 02	22	78 30	23	21 14	11	64 48	22	45 90	22	58 04	22	58 32	16	47 13	22
April,	20 27	10	30 48	9	27 64	10	62 85	25	41 39	17	70 83	28	48 12	22	41 36	21	50 77	23	50 31	23
May,	48 92	23	67 45	18	68 76	26	42 27	19	18 29	11	60 00	25	53 67	22	16 29	7	53 23	26	58 59	26
June,	58 71	26	32 03	10	54 04	23	34 89	20	30 92	14	34 69	24	60 79	21	30 00	13	53 07	24	63 42	26
July,	40 56	18	17 20	9	28 76	16	50 56	19	23 47	16	40 25	21	54 17	20	21 30	13	57 71	21	59 67	20
August,	52 40	20	66 83	26	61 15	21	49 40	25	27 19	16	59 16	22	44 72	22	60 99	23	62 08	26	56 50	26
September,	67 02	24	64 64	23	74 16	25	55 62	22	57 05	21	53 23	24	30 14	15	55 16	20	50 06	24	50 65	24
October,	65 53	23	27 75	21	62 96	24	59 29	24	50 40	16	54 08	27	55 76	23	65 07	23	53 24	25	46 62	26
November,	64 92	24	53 05	22	68 80	24	51 13	20	19 82	7	68 55	25	60 96	24	50 72	22	50 15	23	55 83	25
December,	70 78	25	53 94	23	67 66	23	55 66	23	40 69	18	62 21	23	67 87	24	69 67	23	60 54	24	49 12	24
Total,	\$620 80	246	\$566 99	223	\$641 83	249	\$647 33	262	\$404 26	182	\$652 47	276	\$651 43	261	\$558 05	224	\$646 02	273	\$637 50	283

Lowest Individual Earnings.

January,	\$39 87	27 ¹ / ₂	\$30 37	27 ¹ / ₂	\$36 61	27 ¹ / ₂	\$36 97	27 ¹ / ₂	\$34 80	24	\$33 71	23 ¹ / ₂	\$32 62	22 ¹ / ₂	\$33 71	23 ¹ / ₂	\$30 08	20 ³ / ₄	\$32 62	22 ¹ / ₂
February,	25 27	17 ¹ / ₂	35 57	17 ¹ / ₂	25 81	17 ¹ / ₂	30 08	20 ³ / ₄	25 73	17 ¹ / ₂	22 92	16 ¹ / ₂	24 65	17 ¹ / ₂	25 37	17 ¹ / ₂	25 37	17 ¹ / ₂	23 20	16
March,	30 81	21 ¹ / ₂	30 08	24 ³ / ₄	24 65	24 ³ / ₄	28 27	19 ¹ / ₂	26 46	13 ¹ / ₂	30 08	24 ³ / ₄	26 46	18 ¹ / ₂	26 46	18 ¹ / ₂	31 90	22 ¹ / ₂	22 11	15 ¹ / ₂
April,	35 52	24 ³ / ₄	35 52	24 ³ / ₄	33 71	25 ¹ / ₂	33 35	23	34 80	24	34 80	24	36 61	20 ³ / ₄	32 98	22 ¹ / ₂	36 61	20 ³ / ₄	30 08	20 ³ / ₄
May,	41 32	28 ¹ / ₂	40 60	28	26 87	25 ¹ / ₂	35 88	24 ³ / ₄	38 78	26 ³ / ₄	39 87	27 ¹ / ₂	38 78	20 ³ / ₄	35 52	24 ³ / ₄	38 06	23 ¹ / ₂	34 43	23 ¹ / ₂
June,	32 26	22 ¹ / ₂	29 00	20	38 06	26 ¹ / ₂	27 91	19 ¹ / ₂	27 55	19	31 17	21 ¹ / ₂	30 81	21 ¹ / ₂	22 11	15 ¹ / ₂	31 53	21 ¹ / ₂	25 01	17 ¹ / ₂
July,	30 45	21	26 46	13 ¹ / ₂	13 41	9 ¹ / ₂	24 65	17	27 55	19	32 98	22 ¹ / ₂	25 37	17 ¹ / ₂	27 18	18 ¹ / ₂	25 37	17 ¹ / ₂	21 02	14 ¹ / ₂
August,	35 88	24 ³ / ₄	29 72	21 ¹ / ₂	28 57	18 ¹ / ₂	28 03	19 ¹ / ₂	32 26	22 ¹ / ₂	34 07	23 ¹ / ₂	32 80	24	29 00	20	29 36	20 ³ / ₄	29 36	20 ³ / ₄
September,	35 16	24 ¹ / ₂	2 91	11 ¹ / ₂	9 06	6 ¹ / ₂	25 37	17 ¹ / ₂	27 91	19 ¹ / ₂	31 53	21 ¹ / ₂	32 98	22 ¹ / ₂	16 31	11 ¹ / ₂	27 91	19 ¹ / ₂	24 65	17
October,	34 80	24	65 52	21 ¹ / ₂	28 63	19 ¹ / ₂	27 18	18 ¹ / ₂	28 63	19 ¹ / ₂	33 35	23	33 35	23	34 67	23 ¹ / ₂	29 00	20	64 65	17
November,	34 80	24	32 62	22 ¹ / ₂	29 72	20 ³ / ₄	3 98	23	26 61	25 ¹ / ₂	29 00	20	32 62	22 ¹ / ₂	31 90	22	26 00	20	32 62	22 ¹ / ₂
December,	40 23	27 ¹ / ₂	32 58	22 ¹ / ₂	35 88	24 ³ / ₄	33 35	23	39 51	27 ¹ / ₂	38 06	26 ¹ / ₂	28 05	26 ¹ / ₂	25 73	17 ¹ / ₂	34 80	24	30 45	21
Total,	\$416 47	287 ¹ / ₂	\$385 65	262	\$385 90	285 ¹ / ₂	\$335 62	283 ¹ / ₂	\$380 59	263	\$392 54	271 ¹ / ₂	\$387 11	267	\$340 34	235 ¹ / ₂	\$368 99	254 ¹ / ₂	\$330 20	227 ¹ / ₂

No. 16 —NUMBER OF DAYS IN OPERATION DURING THE YEAR, 194.
Highest Individual Earnings.

1888.	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
January.	\$25 00	5	\$14 00	4 $\frac{1}{2}$	\$10 00	4 $\frac{1}{2}$	\$18 00	4 $\frac{3}{4}$	\$14 00	4 $\frac{3}{4}$	\$18 00	4 $\frac{3}{4}$	\$18 00	5 $\frac{3}{4}$	\$14 00	4 $\frac{1}{2}$	\$13 00	4 $\frac{1}{2}$	\$12 00	5
February.	9 00	4	9 00	4	11 00	4	8 00	3 $\frac{3}{4}$	11 00	4	8 00	3 $\frac{3}{4}$	12 00	4 $\frac{1}{2}$	13 00	4 $\frac{1}{2}$	9 00	4 $\frac{1}{2}$	9 00	4
Mar h.	31 00	10 $\frac{1}{4}$	29 00	11 $\frac{1}{4}$	35 00	11	38 00	12	34 00	11	38 00	12	57 00	13 $\frac{1}{4}$	28 00	11 $\frac{1}{4}$	41 00	10 $\frac{3}{4}$	43 00	12
April.	41 00	10 $\frac{1}{4}$	37 00	12 $\frac{1}{2}$	44 00	12	38 00	12 $\frac{1}{2}$	34 00	12	38 00	12 $\frac{1}{2}$	50 00	13 $\frac{1}{4}$	42 00	12 $\frac{1}{2}$	39 00	10 $\frac{1}{4}$	48 00	12 $\frac{1}{4}$
May.	31 00	11 $\frac{1}{2}$	41 00	13	38 00	13	35 00	12	43 00	13 $\frac{1}{2}$	35 00	12	61 00	13 $\frac{1}{4}$	48 00	14 $\frac{1}{4}$	40 00	12	43 00	13 $\frac{1}{2}$
June.	43 00	14	42 00	13 $\frac{1}{2}$	36 00	13 $\frac{1}{2}$	59 00	19	59 00	19	64 00	19 $\frac{1}{2}$	70 00	20 $\frac{1}{4}$	58 00	16 $\frac{1}{4}$	40 00	12 $\frac{1}{2}$	50 00	22 $\frac{1}{4}$
July.	30 00	11	45 00	17 $\frac{1}{2}$	49 00	13 $\frac{1}{2}$	73 00	22	73 00	22	62 00	20 $\frac{3}{4}$	69 00	18 $\frac{1}{2}$	72 00	20	73 00	20 $\frac{1}{2}$	65 00	19
August.	32 00	12	43 00	17	51 00	16	49 00	17 $\frac{1}{2}$	49 00	17 $\frac{1}{2}$	57 60	18	75 00	16 $\frac{1}{2}$	56 00	16	49 00	14	46 00	17 $\frac{3}{4}$
September.	34 00	12 $\frac{1}{2}$	58 00	14 $\frac{1}{4}$	34 00	14	47 00	17	47 00	17	52 00	16 $\frac{1}{4}$	46 00	18	40 00	15 $\frac{1}{2}$	39 00	16 $\frac{1}{2}$	44 00	16
October.	47 00	13	39 00	19 $\frac{3}{4}$	61 00	16	55 00	19 $\frac{3}{4}$	52 00	19	52 00	19	46 00	18 $\frac{1}{2}$	59 00	20 $\frac{3}{4}$	50 00	21	70 00	20
November.	43 00	14	15 00	12 $\frac{1}{2}$	24 00	8 $\frac{1}{2}$	38 00	13 $\frac{1}{4}$	38 00	13 $\frac{1}{4}$	37 00	14	34 00	13 $\frac{1}{2}$	43 00	13 $\frac{1}{4}$	24 00	12	39 00	14
December.	37 00	13	21 00	9 $\frac{1}{4}$	23 00	9	24 00	10	24 00	10	35 00	10	26 00	10 $\frac{1}{2}$	29 00	10 $\frac{1}{2}$	27 00	10	22 00	8 $\frac{1}{2}$
Total.	\$406 00	132 $\frac{1}{2}$	\$366 00	114 $\frac{3}{4}$	\$406 00	137	\$485 00	164 $\frac{1}{4}$	\$496 00	162 $\frac{1}{2}$	\$564 00	161	\$502 00	159 $\frac{3}{4}$	\$444 00	148 $\frac{1}{2}$	\$491 00	155		

Lowest Individual Earnings.

1888.	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
January.	\$12 00	4 $\frac{3}{4}$	\$11 00	4 $\frac{1}{2}$	\$10 00	4 $\frac{1}{2}$	\$15 00	5	\$11 00	5	\$15 00	5	\$11 00	5	\$14 00	5	\$14 00	3	\$13 00	4 $\frac{1}{2}$
February.	6 00	4	14 00	4	11 00	4	28 00	4 $\frac{1}{2}$	9 00	4 $\frac{1}{2}$	28 00	4 $\frac{1}{2}$	11 00	4 $\frac{1}{2}$	8 00	4	7 00	3 $\frac{1}{2}$	11 00	4 $\frac{1}{2}$
March.	17 00	9	25 00	7 $\frac{1}{2}$	30 00	10 $\frac{1}{4}$	35 00	10 $\frac{1}{2}$	30 00	11	35 00	10 $\frac{1}{2}$	31 00	11	43 00	11	26 00	8 $\frac{1}{2}$	35 00	11 $\frac{1}{4}$
April.	30 00	11 $\frac{1}{2}$	27 00	6 $\frac{1}{4}$	33 00	12	24 00	11	24 00	10	24 00	11 $\frac{1}{4}$	30 00	11 $\frac{1}{2}$	38 00	12	30 00	11 $\frac{1}{4}$	32 00	12 $\frac{1}{4}$
May.	31 00	14	32 00	8	24 00	9	50 00	12 $\frac{1}{2}$	20 00	11	33 00	12 $\frac{1}{2}$	30 00	13	32 00	6 $\frac{1}{4}$	32 00	12 $\frac{1}{2}$	23 00	9
June.	33 00	12 $\frac{1}{2}$	29 00	12	27 00	9	36 00	15 $\frac{1}{2}$	50 00	17 $\frac{1}{2}$	36 00	15 $\frac{1}{2}$	41 00	14 $\frac{3}{4}$	48 00	18 $\frac{1}{4}$	45 00	14	48 00	18 $\frac{1}{2}$
July.	47 00	17 $\frac{3}{4}$	49 00	9	50 00	20	51 00	16	51 00	19	42 00	16	47 00	16 $\frac{1}{4}$	50 00	19	43 00	15 $\frac{3}{4}$	56 00	20
August.	35 00	14 $\frac{1}{2}$	28 00	8 $\frac{3}{4}$	37 00	13 $\frac{1}{2}$	43 00	14 $\frac{1}{2}$	43 00	16 $\frac{1}{2}$	37 00	14 $\frac{1}{2}$	38 00	14 $\frac{3}{4}$	40 00	16 $\frac{1}{2}$	42 00	15	40 00	16 $\frac{1}{2}$
September.	36 00	15	34 00	12 $\frac{1}{2}$	48 00	13 $\frac{1}{2}$	47 00	14 $\frac{1}{2}$	47 00	14 $\frac{1}{2}$	38 00	14 $\frac{1}{2}$	42 00	15 $\frac{3}{4}$	40 00	13	42 00	17	60 00	17
October.	43 00	19	36 00	15 $\frac{1}{2}$	45 60	16 $\frac{3}{4}$	47 00	17	47 00	19	38 00	17 $\frac{1}{2}$	55 00	19	41 00	8	43 00	13 $\frac{1}{2}$	55 00	20
November.	30 00	13 $\frac{3}{4}$	26 00	12 $\frac{1}{2}$	17 00	14	40 00	13 $\frac{1}{2}$	40 00	13 $\frac{1}{2}$	28 00	13	43 00	14	37 00	11 $\frac{1}{4}$	22 00	7 $\frac{3}{4}$	32 00	13
December.	21 00	8	14 00	10 $\frac{1}{4}$	25 00	9 $\frac{1}{4}$	26 00	10	26 00	9	26 00	10	54 00	11	21 00	8 $\frac{3}{4}$	21 00	5 $\frac{1}{4}$	30 00	10
Total.	\$341 00	144	\$334 00	128 $\frac{1}{4}$	\$377 00	139	\$408 00	149 $\frac{1}{2}$	\$381 00	144 $\frac{1}{4}$	\$416 00	150 $\frac{1}{2}$	\$376 00	135 $\frac{3}{4}$	\$369 00	122 $\frac{1}{2}$	\$435 00	156 $\frac{1}{2}$		

No. 17.—NUMBER OF DAYS IN OPERATION DURING THE YEAR, 214.
Highest Individual Earnings.

	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
1883.																				
January,	\$33 00	17	\$29 70	17	\$32 45	16	\$63 50	11	\$38 50	20	\$39 05	18	\$39 60	19	\$18 15	14	\$31 90	16	\$29 35	15
February,	30 80	15	31 35	18	34 10	18	40 15	12	41 80	20	34 65	16	41 25	20	31 35	18	29 15	16	34 07	18
March,	50 05	17	42 90	14	38 50	16	54 45	14	42 35	20	46 20	20	45 10	20	42 35	16	44 55	16	41 22	16
April,	56 10	22	52 25	21	53 35	21	45 65	18	44 00	18	50 60	18	46 20	18	41 25	21	43 65	18	53 03	20
May,	56 10	23	69 85	21	53 35	21	9 35	5	56 10	20	58 85	21	50 05	21	45 10	21	38 82	20	28 60	18
June,	54 60	22	55 00	21	53 90	21	33 00	16	52 25	21	44 35	20	53 35	19	43 45	21	41 25	20	39 05	20
July,	42 50	21	36 50	19	43 00	19	43 00	18	35 50	17	37 00	16	41 00	17	34 00	19	33 00	16	18 50	15
August,	41 00	19	44 50	19	52 50	19	46 50	18	39 00	20	45 00	20	42 00	18	34 00	17	40 00	18	31 00	19
September,	37 15	19	36 00	18	43 00	18	44 00	17	32 50	17	36 00	16	34 00	16	41 50	18	25 00	12	25 00	18
October,	51 15	21	35 50	21	38 50	21	56 50	21	62 00	19	50 50	21	43 50	21	44 00	22	38 50	19	28 50	22
November,	49 50	23	50 00	26	41 50	26	51 00	21	41 00	17	35 50	18	37 00	20	44 00	25	44 00	23	37 50	24
December,	43 45	21	33 00	19	41 00	21	57 00	20	21 50	20	58 00	22	53 00	22	37 50	21	40 00	21	30 50	21
Total,	\$545 40	240	\$516 55	234	\$525 15	237	\$544 40	191	\$506 50	229	\$535 90	226	\$529 05	231	\$456 65	233	\$419 82	215	\$396 82	226

Lowest Individual Earnings.

	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
January,	\$13 75	16	\$9 90	11	\$12 10	14	\$18 60	15	\$24 75	19	\$18 60	15	\$18 25	16	\$17 05	15	\$38 20	18	\$27 50	19
February,	30 25	18	12 10	15	18 15	15	24 00	18	20 90	17	22 00	16	20 40	16	18 70	16	25 80	16	29 15	20
March,	18 15	17	15 95	14	23 10	17	26 40	15	25 30	18	26 95	16	27 00	16	25 85	16	35 40	14	29 70	19
April,	21 45	18	20 40	17	22 55	19	31 20	20	25 85	18	18 15	16	31 80	21	34 65	21	33 00	17	20 80	18
May,	17 05	16	27 60	20	20 35	20	23 65	17	28 60	20	30 25	21	26 40	19	35 15	18	26 40	18	38 50	21
June,	17 05	17	29 70	20	18 70	19	21 45	17	30 80	20	30 80	20	35 40	21	26 40	21	29 15	20	33 55	20
July,	14 50	14	15 00	17	17 00	17	17 00	16	19 50	14	25 50	18	25 00	18	30 00	19	24 00	19	24 50	17
August,	13 00	13	22 50	18	19 00	18	17 00	15	27 50	19	29 50	18	27 00	17	35 00	19	25 50	17	34 00	21
September,	16 00	15	19 00	17	20 35	18	16 00	15	22 00	17	32 50	18	28 00	18	15 00	12	24 50	18	23 00	16
October,	20 00	19	23 00	18	28 60	21	23 50	19	26 50	19	31 00	20	31 00	21	29 50	21	29 50	19	31 50	20
November,	17 50	18	26 00	22	27 50	23	20 50	26	25 00	20	32 00	23	27 00	22	34 50	25	35 00	21	32 50	20
December,	16 00	18	17 00	18	22 00	21	23 50	20	23 50	18	22 50	22	23 50	19	30 50	21	25 50	20	48 00	22
Total,	\$214 70	199	\$38 15	267	\$219 40	222	\$262 80	213	\$300 20	219	\$319 75	223	\$320 75	224	\$342 75	224	\$341 95	217	\$387 70	233

No. 18.—NUMBER OF DAYS IN OPERATION DURING THE YEAR, 313.
Highest Individual Earnings.

	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
1883.																				
January,	\$63 36	26	\$68 62	26	\$59 02	25	\$58 00	29	\$53 94	31	\$48 72	28	\$52 20	50	\$52 50	25	\$54 60	26	\$50 46	29
February,	70 65	25	72 19	24	49 22	24	44 00	22	50 46	29	50 46	29	41 76	24	51 82	24	46 20	22	41 76	24
March,	72 50	27	74 46	27	60 47	27	54 00	28	53 94	31	53 94	31	53 94	31	54 60	26	52 50	25	50 46	29
April,	69 79	26	66 03	26	57 58	26	54 00	27	52 20	30	53 94	31	52 20	30	48 30	23	50 40	24	52 20	30
May,	54 87	25	65 02	20	40 90	22	56 00	28	53 94	31	52 94	31	53 94	31	52 50	25	52 50	25	52 20	30
June,	54 73	25	60 81	22	41 53	21	50 00	25	52 20	30	52 20	30	52 20	30	49 35	22	50 40	24	52 20	30
July,	65 97	26	63 61	25	48 77	25	46 00	23	41 76	24	53 94	31	53 94	31	52 50	25	52 50	25	48 72	28
August,	61 38	27	66 06	27	46 35	26	54 00	27	53 94	31	52 20	30	52 20	30	48 50	23	54 60	26	53 94	31
September,	71 95	25	73 72	25	49 74	21	54 00	27	52 20	30	52 20	30	52 20	30	56 70	27	52 50	25	48 72	28
October,	61 02	27	54 86	26	65 62	27	58 00	29	53 94	31	53 94	31	53 94	31	52 12	25	48 52	23	53 94	31
November,	96 48	26	55 26	26	67 97	26	50 00	25	52 20	30	43 50	25	52 20	30	50 40	24	52 50	25	53 94	31
December,	95 70	26	50 40	26	73 02	26	52 00	26	52 20	30	53 94	31	52 20	30	53 02	25	54 60	26	53 94	31
Total,	\$838 40	311	\$725 54	301	\$660 19	296	\$639 00	313	\$622 94	358	\$622 92	358	\$622 94	358	\$621 60	296	\$621 60	296	\$612 48	352

Lowest Individual Earnings.

	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
January,	\$40 87	26	\$39 80	26	\$54 06	27	\$30 15	23	\$40 06	22	\$51 10	25	\$15 75	19	\$41 14	23	\$31 65	24	\$33 95	20
February,	31 16	22	30 06	22	27 35	21	39 54	19	23 10	21	47 90	24	46 10	20	29 96	16	21 50	18	31 65	19
March,	49 50	24	52 10	25	36 75	22	35 10	20	33 10	19	31 02	24	30 10	22	35 10	20	41 56	25	83 36	21
April,	41 70	25	38 90	20	37 41	21	50 05	26	32 15	18	32 15	25	33 20	24	30 65	21	36 15	22	35 50	22
May,	39 90	20	40 50	24	50 95	25	42 20	24	50 42	26	29 50	20	29 95	23	37 05	19	33 90	23	31 10	19
June,	40 21	22	38 14	18	38 74	20	35 15	22	47 10	26	37 41	26	30 50	17	31 64	20	21 05	16	24 60	17
July,	36 30	23	51 76	26	51 25	20	30 01	17	31 97	20	30 90	24	35 10	19	32 04	23	33 16	20	39 17	24
August,	30 40	21	37 16	22	42 10	24	49 91	26	33 60	21	29 86	25	33 60	23	38 52	25	44 15	24	32 11	22
September,	32 61	23	28 67	26	34 50	25	38 60	25	38 90	23	30 01	22	41 76	25	32 75	20	31 17	19	20 76	14
October,	45 80	27	35 75	23	31 16	23	30 35	21	32 10	26	29 67	26	21 24	20	30 45	17	32 80	20	31 15	20
November,	42 35	26	37 30	25	33 60	20	32 10	24	26 40	19	27 45	21	26 50	23	37 50	24	36 10	24	36 15	24
December,	41 95	25	40 05	26	30 10	19	28 19	22	39 07	21	32 05	23	39 95	21	33 15	19	28 76	21	34 29	25
Total,	\$172 83	284	\$470 19	283	\$467 97	272	\$441 35	269	\$437 97	262	\$409 02	285	\$408 75	256	\$399 95	247	\$396 45	256	\$383 79	247

No. 19.—NUMBER OF DAYS IN OPERATION DURING THE YEAR, 269 3-4.

Highest Individual Earnings.

1888.	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
January,	\$60 00	20	\$50 00	20	\$40 00	20	\$60 00	20	\$55 00	20	\$48 00	20	\$50 00	20	\$48 00	18	\$50 00	20	\$40 00	20
February,	38 00	18	45 00	22	45 00	22	47 00	20	50 00	21	52 00	20	45 00	22	50 00	20	45 00	22	45 00	22
March,	40 00	18	50 00	20	55 00	23	60 00	24	58 00	23	60 00	23	50 00	20	52 00	23	50 00	20	55 00	23
April,	50 00	20	50 00	22	50 00	22	55 00	20	57 00	22	54 00	24	50 00	22	51 00	29	50 00	22	50 00	22
May,	65 00	24	60 00	24	55 00	25	65 00	25	62 00	25	58 00	20	60 00	24	59 00	25	60 00	24	55 00	25
June,	60 00	24	60 00	24	55 00	24	60 00	25	59 00	25	57 00	20	60 00	24	53 00	20	60 00	24	55 00	24
July,	40 00	19	50 00	19	50 00	19	52 00	19	50 00	20	45 00	20	50 00	19	48 00	20	50 00	19	55 00	19
August,	50 00	20	60 00	24	56 00	18	58 00	22	56 00	20	55 00	22	60 00	24	57 00	25	60 00	24	56 00	18
September,	50 00	20	60 00	23	50 00	21	54 00	22	60 00	24	58 00	22	60 00	23	59 00	25	60 00	23	50 00	21
October,	45 00	21	65 00	25	50 00	20	60 00	25	55 00	24	54 00	25	65 00	25	62 00	25	65 00	25	50 00	20
November,	40 00	20	65 00	25	57 00	23	62 00	25	60 00	25	59 00	24	65 00	25	61 00	25	60 00	25	57 00	23
December,	35 00	18	60 00	25	55 00	22	58 00	24	62 00	24	60 00	24	60 00	25	63 00	20	65 00	25	55 00	22
Total,	\$573 00	242	\$675 00	273	\$618 00	259	\$691 00	271	\$684 00	268	\$660 00	269	\$675 00	273	\$663 00	266	\$675 00	273	\$618 00	259

Lowest Individual Earnings.

January,	\$35 00	20	\$37 00	20	\$32 00	19	\$30 00	19	\$35 00	20	\$31 00	20	\$40 00	20	\$42 00	20	\$42 00	20	\$35 00	18
February,	30 00	19	35 00	20	30 00	20	33 00	22	37 00	22	40 00	22	26 00	20	33 00	21	33 00	21	39 00	23
March,	38 00	23	36 00	23	30 00	20	31 00	20	32 00	21	37 00	23	41 00	24	38 00	23	38 00	23	41 00	24
April,	32 00	21	31 00	20	33 00	21	35 00	23	34 00	22	40 00	23	37 00	23	39 00	24	41 00	24	36 00	24
May,	31 00	21	32 00	21	31 00	20	30 00	20	40 00	23	31 00	21	32 00	20	33 00	22	36 00	20	31 00	20
June,	40 00	24	41 00	25	45 00	25	40 00	24	37 00	24	34 00	23	38 00	24	41 00	24	33 00	20	32 00	20
July,	38 00	22	40 00	22	38 00	23	36 00	24	39 00	24	32 00	21	41 00	24	38 00	24	40 00	24	36 00	24
August,	42 00	25	43 00	25	30 00	21	39 00	23	41 00	24	40 00	25	37 00	23	37 00	20	36 00	22	38 00	24
September,	45 00	25	42 00	24	41 00	24	40 00	24	36 00	23	37 00	24	33 00	20	40 00	23	41 00	24	40 00	24
October,	33 00	22	33 00	21	32 00	22	38 00	23	39 00	23	37 00	23	39 00	25	39 00	22	39 00	24	37 00	23
November,	30 00	20	21 00	21	30 00	22	26 00	23	32 00	21	33 00	22	35 00	23	36 00	20	35 00	20	32 00	22
December,	32 00	22	36 00	24	35 00	23	33 00	22	30 00	19	31 00	21	33 00	22	40 00	24	41 00	24	35 00	21
Total,	\$426 00	264	\$427 00	266	\$407 00	260	\$421 00	267	\$432 00	266	\$423 00	268	\$442 00	268	\$460 00	266	\$455 00	266	\$432 00	267

No. 20.—NUMBER OF DAYS IN OPERATION DURING THE YEAR, 270.
Highest Individual Earnings.

1888.	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
January,	\$102 56	25	\$87 00	25	\$87 63	24	\$81 43	23	\$78 21	23	\$78 98	23	\$81 16	24	\$74 80	25	\$70 86	25	\$71 69	25
February,	81 25	22	81 63	22	71 82	20	76 25	22	72 86	21	71 87	22	73 00	21	65 08	21	69 80	20	67 91	20
March,	65 94	25	66 00	25	75 80	26	59 50	23	71 00	25	63 75	24	62 50	25	74 00	26	61 20	24	67 00	25
April,	86 00	24	75 00	25	71 00	25	60 00	20	70 00	24	71 63	25	61 42	20	60 90	23	60 23	23	60 82	24
May,	85 89	24	69 28	23	75 60	24	56 75	18	61 63	20	65 00	22	55 00	19	65 00	22	75 40	24	71 80	23
June,	60 00	23	61 73	23	61 00	22	59 00	20	58 32	21	61 00	23	54 63	20	67 80	23	59 00	23	40 76	14
July,	64 71	20	57 84	20	56 80	20	55 60	18	54 60	20	50 67	18	56 20	20	59 73	19	61 83	20	51 67	16
August,	60 91	18	59 86	18	57 00	18	40 20	15	53 80	17	59 80	17	55 40	18	49 20	18	48 90	18	41 76	12
September,	86 62	21	84 20	21	84 00	22	49 20	16	76 80	19	75 00	21	79 60	21	74 21	21	62 50	20	80 60	21
October,	94 29	25	90 00	24	85 42	22	48 60	18	49 62	20	84 36	22	83 22	24	69 00	24	77 50	25	42 76	12
November,	90 05	20	90 06	22	86 70	22	60 00	19	59 76	21	71 66	21	80 60	20	81 20	20	71 43	20	71 89	20
December,	71 66	20	69 00	18	68 97	18	47 80	15	68 00	19	42 00	14	50 40	18	69 31	20	50 27	19	63 00	20
Total,	\$949 88	267	\$891 63	266	\$881 74	263	\$694 33	227	\$774 60	250	\$795 72	252	\$792 53	250	\$805 23	262	\$768 92	261	\$731 66	232

Lowest Individual Earnings.

1888.	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
January,	\$23 00	18	\$24 60	20	\$21 00	19	\$23 36	24	\$22 86	19	\$22 03	20	\$24 21	22	\$18 40	20	\$27 33	14	\$21 70	23
February,	21 39	17	23 70	19	23 00	18	19 59	20	20 02	19	24 08	19	22 75	20	21 00	22	23 50	14	33 14	20
March,	27 69	25	21 10	21	25 69	24	27 90	24	26 49	21	22 69	24	19 02	20	21 00	22	29 80	14	28 60	20
April,	31 11	24	19 63	20	27 80	21	21 60	20	19 67	20	27 30	24	24 00	20	19 70	23	36 40	12	25 40	22
May,	19 60	20	17 48	18	20 97	18	21 45	17	24 76	25	24 80	20	21 03	20	18 40	20	35 60	12	22 80	21
June,	18 21	17	15 29	16	21 29	16	18 37	18	21 89	20	21 51	23	25 60	21	21 10	18	32 70	10	27 60	20
July,	18 60	14	21 80	15	14 22	14	20 07	16	20 46	20	17 89	18	19 08	18	20 87	20	23 60	10	25 40	18
August,	17 00	18	24 23	16	17 69	18	18 00	18	17 89	16	22 00	17	21 00	16	16 94	15	34 80	10	28 00	18
September,	15 67	13	25 21	18	24 00	19	24 20	20	21 75	20	18 79	18	18 40	18	21 10	20	45 08	15	31 05	20
October,	26 53	20	30 62	21	25 86	21	29 32	21	25 67	25	21 06	20	28 21	24	21 00	25	26 75	18	29 00	24
November,	17 90	17	12 50	10	19 60	18	24 58	20	22 00	20	22 09	18	22 06	18	18 70	20	37 00	18	25 80	18
December,	14 81	12	28 47	20	28 46	19	19 76	19	21 04	18	14 21	15	21 08	16	19 60	20	31 25	10	24 36	18
Total,	\$251 71	215	\$264 63	214	\$269 58	225	\$204 20	227	\$264 50	241	\$258 45	236	\$256 44	233	\$237 81	245	\$390 11	157	\$322 85	242

No. 21.—NUMBER OF DAYS IN OPERATION DURING THE YEAR, 280.
Highest Individual Earnings,

	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
1888.																				
January,	\$34 75	23			\$49 72	24	\$49 42	16	\$53 50	23	\$17 56	26	\$53 64	27	\$26 12	15	\$17 62	23	\$17 63	23
February,	26 82	19	21 81	13	21 81	13	37 34	16	33 01	20	29 80	22	69 09	23	61 33	17	40 80	17	40 80	17
March,	52 47	25	54 38	25	54 38	25	54 31	26	44 76	23	74 72	24	74 71	24	49 68	22	83 87	26	83 88	26
April,	50 66	25	48 79	25	48 79	25	53 26	24	53 73	22	72 80	25	72 80	25	55 98	22	96 29	25	96 29	25
May,	44 00	23	47 45	23	47 45	23	42 06	23	44 82	21	52 04	21	52 05	21	43 63	21	58 17	18	58 18	18
June,	46 54	25	44 52	25	44 52	25	43 93	24	48 06	25	50 10	23	50 10	23	48 83	23	78 59	23	78 59	23
July,	41 51	24	40 20	24	40 20	24	43 93	24	19 40	11	39 40	18	39 40	18	39 40	18	43 20	16	43 20	16
August,	47 52	25	43 71	26	43 71	26	45 04	26	43 96	22	43 19	23	43 19	23	39 44	24	74 93	25	74 93	25
September,	42 97	22	42 72	23	42 72	23	40 08	20	85 06	18	34 65	19	34 65	19	33 55	18	50 62	16	50 62	16
October,	37 22	20	37 05	21	37 05	21	36 00	19	34 60	19	33 99	19	33 99	19	33 95	19	50 62	15	50 63	15
November,	45 00	25	52 53	25	52 53	25	48 62	24	42 31	25	43 73	25	43 73	25	37 87	24	77 62	24	77 63	24
December,	43 79	24	51 03	24	51 03	24	44 62	20	49 82	19	30 34	19	30 34	19	33 23	17	56 70	17	56 70	17
Total,	\$513 27	280	\$533 81	278	\$533 81	278	\$535 88	263	\$503 09	248	\$552 32	264	\$397 69	266	\$503 01	240	\$189 03	245	\$189 08	245

Lowest Individual Earnings.

January,	\$39 22	21	\$41 76	20	\$27 60	20	\$43 62	24	\$37 68	24	\$47 00	19	\$32 66	20	\$40 46	22	\$35 22	23	\$40 90	20
February,	33 81	18	29 08	15	28 38	15	32 50	20	26 82	21	30 24	18	38 58	21	14 58	14	11 02	8	21 62	14
March,	49 27	26	52 03	26	48 50	26	44 50	25	46 21	24	29 90	24	37 34	24	32 40	16	45 13	23	68 31	25
April,	37 77	24	46 03	24	43 26	24	46 68	25	40 00	22	27 44	23	55 06	24	53 73	25	42 21	23	56 63	22
May,	23 05	21	40 95	20	40 85	24	42 93	22	31 82	18	23 52	19	19 20	14	27 45	12	15 75	9	42 21	17
June,	45 52	24	46 40	24	40 18	25	45 52	21	41 46	23	32 72	23	36 28	19	26 11	13	41 60	22	54 91	22
July,	40 24	23	37 74	23	36 79	24	41 00	24	83 96	17	35 32	18	14 26	10	26 34	13	25 10	16	27 80	16
August,	46 32	25	43 40	25	36 99	26	47 97	26	37 50	21	28 78	22	30 10	20	27 00	16	40 90	24	48 94	24
September,	33 96	22	33 32	21	34 73	23	38 66	21	20 30	10	28 42	19	21 42	15	24 92	16	32 34	16	30 50	15
October,	32 74	21	32 12	21	24 97	21	38 02	20	..	..	27 98	19	26 14	19	20 00	14	25 98	16	31 46	16
November,	44 24	24	39 48	24	25 58	20	42 40	23	32 72	21	39 14	24	37 24	25	26 94	16	34 76	21	41 66	21
December,	43 42	23	31 62	17	38 29	22	39 74	23	31 44	18	25 63	19	31 94	18	26 24	16	33 62	18	41 16	18
Total,	\$475 59	272	\$473 93	266	\$426 12	271	\$503 54	277	\$382 91	219	\$376 14	247	\$370 22	229	\$316 17	193	\$383 63	222	\$509 10	230

No. 22 —NUMBER OF DAYS IN OPERATION DURING THE YEAR, 281.
Highest Individual Earnings.

	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
1888.																				
January,	\$48 18	24	\$47 45	24	\$53 49	24	\$72 56	24	\$42 70	24	\$55 08	24	\$39 60	24	\$54 68	24	\$29 15	20	\$41 00	23
February,	30 01	21	50 62	21	58 24	21	70 03	21	58 79	21	43 63	21	45 86	21	75 80	21	30 15	18	37 00	20
March,	82 37	26	72 49	26	67 41	26	77 85	26	69 30	26	68 33	26	53 93	26	28 73	26	64 55	18	48 50	24
April,	82 25	24	71 74	24	43 80	24	72 02	24	50 45	24	49 94	24	38 19	24	38 93	24	65 21	24	42 50	22
May,	95 32	25	70 68	25	67 91	25	65 81	25	46 69	25	60 08	25	48 25	25	41 95	25	66 15	23	39 40	23
June,	58 12	22	56 75	22	50 03	22	77 93	22	36 32	22	41 11	22	31 98	22	26 02	22	49 00	20	37 60	20
July,	76 72	19	36 35	19	48 18	19	49 20	19	33 11	19	45 07	19	32 32	19	29 75	19	43 95	20	33 50	18
August,	56 39	22	46 48	22	60 47	22	73 25	22	41 67	22	49 62	22	34 53	22	29 50	22	57 30	22	46 25	22
September,	60 99	24	73 07	24	64 60	24	77 24	24	55 97	24	53 76	24	55 16	24	54 23	24	62 00	24	47 00	23
October,	50 6	26	81 60	26	83 36	26	72 96	26	96 80	26	63 54	26	67 53	26	87 09	26	61 20	26	49 00	25
November,	67 35	23	65 77	23	62 84	23	59 97	23	50 34	23	44 80	23	58 70	23	66 86	24	58 90	23	43 50	21
December,	47 66	25	47 40	25	58 70	20	75 13	25	47 75	25	55 79	25	53 92	25	73 17	25	65 43	25	48 75	24
Total,	\$750 41	281	\$720 40	281	\$719 66	276	\$948 95	281	\$634 89	281	\$629 71	281	\$560 00	281	\$606 76	281	\$652 99	273	\$514 00	265

Lowest Individual Earnings.

January,	\$50 36	22	\$51 98	23	\$28 36	19	\$27 80	22	\$32 87	20	\$26 80	22	\$25 18	20	\$30 48	22	\$22 60	22	\$26 49	22
February,	36 50	21	39 24	21	26 13	18	42 97	23	34 93	21	2 77	3	7 79	7	35 28	23	19 59	14	28 15	19
March,	39 33	21	33 95	24	44 99	19	42 09	25	39 26	18	45 69	24	38 07	22	28 14	21	37 64	20	22 68	20
April,	41 63	23	37 26	20	35 33	30	30 72	21	33 79	20	33 01	20	32 67	20	32 27	23	21 69	18	19 91	17
May,	31 03	18	26 43	19	25 52	17	23 09	22	33 64	21	37 08	24	36 78	24	19 10	13	24 40	17	26 19	17
June,	27 11	21	27 50	22	2 77	1	24 91	19	21 71	16	25 67	21	26 74	21	31 10	19	27 37	15	19 00	11
July,	23 35	19	23 43	16	29 37	16	23 79	19	19 97	15	25 61	19	27 19	19	29 74	17	7 00	5	17 77	17
August,	28 05	21	27 66	19	40 86	20	24 63	19	25 47	19	24 97	19	26 23	19	29 64	20	21 95	16	36 55	20
September,	33 24	22	34 18	24	43 92	21	43 02	23	29 04	21	29 97	21	33 42	22	22 71	20	25 74	18	19 98	16
October,	39 56	25	42 88	25	46 84	25	44 37	23	27 23	20	43 23	21	50 02	25	32 78	22	20 54	18	20 54	18
November,	30 32	23	30 33	23	43 83	25	37 43	22	28 16	21	37 08	22	33 37	21	34 08	23	13 47	12	26 07	22
December,	34 19	25	39 20	22	44 30	25	35 81	20	47 94	24	42 01	24	21 66	16	29 57	18	23 68	18	25 09	22
Total,	\$414 67	261	\$414 04	258	\$408 85	226	\$400 63	258	\$375 01	233	\$373 89	240	\$359 12	236	\$354 89	241	\$282 86	197	\$238 42	221

No. 23.—NUMBER OF DAYS IN OPERATION DURING THE YEAR, 231.
Highest Individual Earnings.

1888.	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
January,	\$59 00	19	\$35 00	18	\$50 00	20	\$38 00	17	\$31 00	17	\$50 03	20	\$37 00	15	\$35 00	20	\$33 00	18	\$35 00	19
February,	30 00	13	26 00	13	30 00	14	30 00	12	30 00	11	32 00	14	18 00	9	26 00	13	31 00	14	25 00	14
March,	21 00	7	11 00	5	18 00	10	20 00	8	27 00	10	5 00	3	30 00	10	16 00	10	22 00	10	17 00	9
April,	56 00	12	36 00	12	28 00	12	27 00	9	26 00	10	29 00	12	27 00	11	32 00	12	34 00	12	25 00	12
May,	60 00	19	48 00	20	41 00	20	43 00	19	54 00	20	40 00	19	59 00	21	42 00	21	47 00	21	45 00	21
June,	56 00	20	44 00	20	36 00	16	30 00	18	49 00	18	38 00	20	50 00	21	49 00	19	42 00	20	37 00	20
July,	72 03	24	70 00	25	58 00	25	52 00	24	33 00	18	52 00	22	50 00	21	50 03	24	52 00	25	53 00	25
August,	35 00	18	46 00	20	34 00	20	52 00	21	50 00	20	41 00	24	42 00	20	46 03	22	36 00	22	43 00	22
September,	35 00	17	46 00	23	60 00	24	52 00	24	42 00	19	50 03	24	35 00	21	50 00	23	49 00	24	45 00	23
October,	60 00	33	70 00	26	60 00	25	66 00	26	72 00	26	74 00	26	72 00	26	60 03	26	52 00	26	55 00	26
November,	65 00	29	56 00	21	60 00	21	60 00	21	52 00	20	44 00	20	34 00	17	48 00	21	50 00	21	48 00	21
December,	45 00	16	35 00	17	42 00	18	42 00	16	37 00	14	42 00	18	28 00	15	35 00	17	28 00	18	36 00	17
Total,	\$594 00	218	\$523 00	220	\$517 00	225	\$512 00	215	\$511 03	203	\$497 00	222	\$492 00	206	\$480 00	228	\$479 00	231	\$464 00	229

Lowest Individual Earnings.

January,	\$24 00	19	\$20 00	17	\$24 00	17	\$28 00	19	\$30 00	18	\$34 00	20	\$32 00	20	\$27 00	13	\$29 00	13	\$45 00	19
February,	18 00	14	22 00	14	23 00	14	19 00	14	23 00	14	25 00	14	27 00	13	21 00	14	15 00	13	35 00	14
March,	4 00	4	8 00	6	13 00	9	7 00	5	10 00	9	7 00	4	7 00	5	6 00	4	12 00	6	17 00	10
April,	13 00	9	26 00	12	23 00	12	26 00	12	28 00	12	18 00	10	23 00	12	14 00	7	27 00	12	25 00	12
May,	26 00	21	12 00	10	37 00	19	26 00	16	36 00	20	47 00	20	40 00	20	34 00	21	35 00	19	45 00	21
June,	23 00	18	35 00	17	36 00	17	27 00	18	30 00	15	27 00	18	30 03	18	33 00	18	33 00	19	29 00	17
July,	25 00	18	34 00	18	34 00	22	40 00	22	34 00	19	36 00	21	42 00	24	49 00	24	45 00	24	18 00	12
August,	22 00	21	23 00	19	20 00	19	26 00	19	27 00	17	43 00	20	27 00	20	26 00	20	28 00	20	25 00	19
September,	24 00	18	34 00	20	24 00	19	33 00	20	32 00	13	35 00	21	33 00	20	36 00	23	38 00	21	39 00	20
October,	40 00	23	28 00	17	25 00	24	46 00	23	36 00	22	31 00	23	42 00	25	50 00	22	49 00	23	60 00	25
November,	23 00	16	31 00	18	21 00	16	34 00	20	17 00	9	34 00	20	35 00	18	47 00	19	48 00	19	29 00	18
December,	16 00	16	24 00	16	23 00	14	19 00	15	30 00	18	22 00	15	28 00	18	24 00	14	26 00	18	30 00	16
Total,	\$263 00	197	\$297 00	183	\$303 00	202	\$325 00	203	\$333 00	183	\$356 00	203	\$366 00	213	\$367 00	198	\$385 00	212	\$396 00	203

No. 24.—NUMBER OF DAYS IN OPERATION DURING THE YEAR, 235.

Highest Individual Earnings.

	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
1888.																				
January,	\$50 00	19	\$53 00	17	\$44 00	16	\$35 00	17	\$33 00	19	\$1 00	19	\$21 00	16	\$27 00	18	\$20 00	18	\$22 00	18
February,	40 00	17	46 00	14	38 00	15	31 00	16	30 00	17	20 00	17	21 00	17	20 00	15	25 00	17	17 00	17
March,	40 00	11	33 00	11	48 00	12	16 00	7	21 00	11	17 00	11	18 00	11	17 00	10	38 00	11	23 00	11
April,	77 00	20	74 00	19	68 00	19	44 00	17	40 00	20	42 00	20	43 00	20	35 00	18	39 00	16	36 00	20
May,	66 00	22	57 00	23	52 00	17	53 00	22	44 00	21	45 00	20	31 00	18	37 00	21	38 00	19	46 00	21
June,	75 00	24	79 00	24	60 00	21	40 00	18	54 00	23	63 00	23	58 00	22	55 00	24	52 00	22	52 00	22
July,	75 00	23	92 00	20	70 00	21	48 00	18	53 00	22	46 00	22	52 00	20	52 00	22	59 00	20	34 00	16
August,	70 00	20	50 00	18	60 00	23	54 00	18	56 00	23	48 00	21	29 00	15	36 00	21	25 00	14	52 00	22
September,	72 00	17	52 00	17	37 00	13	55 00	18	28 00	17	38 00	18	23 00	18	29 00	18	8 00	6	26 00	15
October,	96 00	20	83 00	26	60 00	24	51 00	20	38 00	24	62 00	26	62 00	25	65 00	27	50 00	21	46 00	22
November,	75 00	25	57 00	22	53 00	20	59 00	22	37 00	22	33 00	21	54 00	25	35 00	11	24 00	13	25 00	22
December,	50 00	15	62 00	15	52 00	16	33 00	12	25 00	16	23 00	16	24 00	16	23 00	16	23 00	13	11 00	13
Total,	\$736 00	234	\$738 00	227	\$642 00	217	\$524 00	205	\$462 00	235	\$453 00	234	\$441 00	223	\$431 00	221	\$401 00	190	\$417 00	222

Lowest Individual Earnings

January,	\$19 00	16	\$13 00	16	\$1 00	9	\$18 00	15	\$19 60	19	\$17 00	18	\$20 00	18	\$23 00	18	\$23 00	19	\$26 00	18
February,	10 00	8	16 00	16	18 00	16	19 00	15	21 00	17	12 00	16	19 00	17	21 00	17	29 00	17	19 00	16
March,	13 00	11	12 00	10	15 00	11	19 00	10	19 00	10	13 00	11	14 00	11	20 00	11	20 00	11	20 00	11
April,	33 00	20	20 00	17	27 00	17	25 00	16	25 00	16	25 00	18	29 00	17	32 00	20	38 00	20	39 00	19
May,	31 00	21	13 00	13	26 00	16	20 00	19	24 00	21	31 00	22	23 00	16	43 00	22	43 00	21	39 00	22
June,	27 00	20	32 00	22	34 00	17	27 00	23	31 00	23	29 00	21	34 00	22	49 00	24	50 00	23	31 00	18
July,	27 00	20	25 00	18	23 00	14	20 00	23	25 00	19	30 00	22	31 00	23	44 00	21	50 00	22	40 00	22
August,	12 00	16	27 00	21	31 00	18	18 00	22	15 00	14	28 00	20	31 00	22	40 00	20	50 00	23	33 00	21
September,	9 00	12	21 00	15	21 00	13	17 00	17	15 00	13	17 00	15	30 00	17	40 00	20	27 00	17	34 00	17
October,	27 00	22	30 00	19	28 00	19	41 00	23	29 00	26	24 00	21	48 00	25	27 00	18	36 00	24	58 00	25
November,	12 00	10	19 00	15	16 00	13	36 00	22	33 00	24	35 00	22	33 00	23	26 00	20	36 00	22	49 00	27
December,	16 00	15	24 00	15	12 00	11	20 00	13	19 00	16	21 00	16	13 00	17	17 00	12	28 00	16	24 00	15
Total,	\$236 00	191	\$252 00	197	\$272 00	174	\$280 00	218	\$281 00	218	\$282 00	222	\$325 00	228	\$382 00	223	\$430 00	235	\$412 00	231

No. 25.—NUMBER OF DAYS IN OPERATION DURING THE YEAR, 221.
Highest Individual Earnings.

	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of men.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
1888.																				
January,	\$55 47	21	\$39 73	17	\$30 90	17	\$18 68	20	\$45 55	21	\$47 07	18	\$49 94	17	\$47 70	19	\$47 22	17	\$46 07	18
February,	39 71	16	33 07	14	27 23	14	34 59	14	36 67	18	39 63	16	40 80	15	36 64	14	38 40	14	36 87	14
March,	29 15	14	44 76	19	54 22	23	39 53	18	38 69	12	46 70	18	49 98	20	42 15	20	54 28	22	42 09	21
April,	56 80	21	43 02	21	53 36	22	40 71	20	62 74	21	59 60	23	48 40	22	42 26	20	48 40	22	62 27	21
May,	42 64	14	30 12	14	33 74	14	32 22	12	44 69	14	12 12	5	33 70	15	31 65	15	37 50	16	45 93	14
June,	43 85	15	36 32	16	32 85	15	34 60	17	46 79	15	47 35	15	51 00	13	34 77	17	49 55	15	45 0	14
July,	51 71	18	44 21	20	47 94	23	47 46	18	58 39	21	21 87	12	47 65	20	44 81	18	50 78	22	61 82	23
August,	38 70	15	39 54	18	44 05	21	50 00	25	48 92	18	31 44	17	55 04	22	50 00	25	53 24	22	50 12	19
September,	33 92	11	28 05	15	42 69	21	42 21	21	35 87	14	45 47	21	57 70	22	46 13	22	54 02	21	41 39	15
October,	50 90	20	32 62	20	43 95	22	41 25	19	54 52	21	59 15	25	59 37	22	45 47	20	71 47	22	63 80	22
November,	52 92	21	39 15	17	44 24	21	45 37	19	49 39	21	38 92	14	47 94	17	48 14	19	52 67	17	52 19	20
December,	59 46	21	38 46	19	36 97	19	53 88	19	54 24	21	32 82	15	39 05	14	50 37	18	46 07	16	52 50	19
Total,	\$555 23	207	\$449 05	212	\$492 14	232	\$509 90	222	\$576 46	217	\$473 14	199	\$580 57	219	\$520 09	227	\$603 60	262	\$630 48	220

Lowest Individual Earnings.

January,	\$28 44	18	\$24 14	19	\$20 35	14	\$28 05	18	\$20 57	16	\$23 18	15	\$31 50	18	\$16 59	12	\$20 12	17	\$21 09	17
February,	22 18	14	20 28	15	14 72	11	15 27	11	15 09	10	14 55	11	20 14	15	20 07	14	13 52	12	17 97	14
March,	31 64	22	30 16	20	15 57	16	31 41	13	25 64	20	25 47	17	32 22	21	30 93	15	30 40	19	30 82	20
April,	30 05	20	31 80	20	18 42	16	32 17	17	31 54	20	36 22	21	34 24	19	32 27	20	35 27	19	31 91	19
May,	18 90	13	20 10	12	17 37	13	25 17	11	19 75	13	21 40	12	23 27	13	20 91	13	22 95	13	16 54	10
June,	22 14	15	17 98	12	18 60	14	23 22	13	22 81	16	23 70	16	26 54	15	23 62	16	22 95	15	26 33	15
July,	30 77	27	29 64	20	15 97	13	32 01	18	29 42	23	27 51	20	36 67	24	27 03	19	38 34	22	30 67	22
August,	31 05	20	26 96	13	21 39	21	24 15	14	23 67	20	20 47	16	31 02	20	23 60	17	31 43	19	24 25	18
September,	27 79	17	16 18	10	18 37	12	18 05	13	25 26	20	28 53	19	34 95	20	26 18	18	43 17	21	27 57	21
October,	36 49	20	25 66	14	17 67	14	23 55	18	30 61	21	34 30	21	36 50	22	23 47	19	38 61	20	30 99	21
November,	30 17	18	33 39	21	21 67	16	27 12	17	25 65	20	27 85	16	40 30	21	30 91	18	33 34	19	33 58	20
December,	24 10	17	27 47	19	17 85	15	34 78	17	22 67	19	15 64	12	29 10	17	26 62	19	25 62	20	16 67	13
Total,	\$333 81	221	\$308 76	200	\$221 95	175	\$314 95	180	\$292 68	218	\$298 82	196	\$376 45	225	\$302 19	200	\$361 41	217	\$308 22	210

No. 26.—NUMBER OF DAYS IN OPERATION DURING THE YEAR, 205.
Highest Individual Earnings.

1888.	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
January,	\$22 47	11	\$27 52	10	\$19 99	9	\$22 65	10	\$26 52	11	\$28 54	11	\$18 74	8	\$24 62	11	\$27 55	11	\$17 77	9
February,	22 52	10	22 96	10	19 34	10	20 87	10	29 24	11	27 10	11	19 07	9	25 05	11	20 62	9	19 07	10
March,	48 63	14	52 50	16	47 36	13	51 72	18	46 40	16	50 19	18	59 34	19	49 79	17	60 13	18	50 49	17
April,	49 39	17	54 10	22	36 79	14	55 32	23	56 77	22	58 97	22	61 57	22	56 47	22	64 29	20	57 65	22
May,	36 19	13	35 41	12	37 01	11	23 20	11	29 22	11	39 32	14	43 51	13	27 37	14	21 45	7	26 64	11
June,	39 28	14	46 87	16	43 28	15	41 50	16	38 55	16	39 22	15	48 80	15	35 25	15	46 69	16	38 06	16
July,	22 89	9	50 34	16	55 95	17	60 17	23	50 42	22	57 17	20	52 11	21	55 17	22	71 09	24	57 67	22
August,	33 07	11	44 93	17	43 32	15	37 04	16	27 99	14	39 07	13	32 78	16	33 22	12	46 12	17	38 79	13
September,	33 01	16	42 25	13	50 38	16	25 47	13	36 52	18	45 17	18	32 94	17	37 03	19	45 68	17	40 37	19
October,	44 62	21	70 3	21	57 42	21	57 85	22	55 85	22	56 39	21	54 00	23	45 52	18	69 40	23	4 03	22
November,	39 86	19	59 50	20	58 35	20	46 10	19	40 20	16	49 97	19	42 42	20	47 09	17	59 55	20	42 22	18
December,	35 80	17	50 34	18	43 49	16	42 25	18	44 47	19	55 97	20	39 47	18	48 70	20	51 74	19	50 82	18
Total,	\$432 73	172	\$557 12	196	\$512 68	177	\$439 24	199	\$482 15	198	\$547 08	202	\$504 75	201	\$485 27	198	\$584 31	201	\$487 49	197

Lowest Individual Earnings.

1888.	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
January,	\$21 08	10	\$20 97	10	\$18 20	10	\$21 81	9	\$17 54	9	\$28 50	12	\$19 55	10	\$17 27	9	\$19 27	9	\$15 67	10
February,	22 48	9	23 91	11	17 39	10	20 04	10	16 27	9	26 80	11	20 29	10	16 27	10	20 86	10	15 05	10
March,	37 99	17	27 97	13	38 52	14	30 77	14	29 04	13	40 69	17	38 10	16	10 59	6	27 10	14	28 05	15
April,	47 54	21	47 90	21	52 62	21	42 82	22	46 16	21	44 92	20	34 32	17	23 27	14	36 77	23	38 95	22
May,	23 39	14	30 27	14	25 65	14	28 95	14	22 45	11	34 72	14	30 12	14	15 85	8	23 04	14	24 45	14
June,	37 05	16	37 22	16	43 73	16	36 69	13	32 87	16	33 55	16	38 67	16	30 30	16	32 37	16	31 17	16
July,	45 22	18	41 94	20	38 30	16	56 65	22	33 40	17	51 84	23	51 30	20	23 72	17	43 63	22	36 99	21
August,	31 64	16	20 54	10	11 47	7	34 15	16	25 07	13	34 42	16	30 10	16	29 64	16	18 91	10	27 07	18
September,	39 44	19	40 16	22	37 02	18	31 55	16	34 89	19	36 22	18	34 45	18	35 82	17	25 64	13	33 69	18
October,	50 02	20	44 85	22	44 22	21	35 40	18	34 57	18	46 07	21	35 80	18	41 10	20	34 99	21	28 02	16
November,	44 47	20	36 45	13	46 64	19	41 59	21	32 12	19	46 62	19	39 77	19	41 63	20	24 54	15	23 62	15
December,	33 85	17	35 70	17	41 84	18	37 42	19	29 12	17	44 82	19	34 02	18	28 25	16	27 79	16	26 80	17
Total,	\$439 17	197	\$407 88	192	\$415 90	184	\$420 84	197	\$353 50	182	\$469 17	206	\$405 89	192	\$312 71	169	\$334 95	183	\$329 53	192

No. 27.—NUMBER OF DAYS IN OPERATION DURING THE YEAR, 263.
Highest Individual Earnings.

	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
1888.																				
January,	\$55 02	21	\$34 15	20	\$33 02	20	\$19 78	15	\$42 39	21	\$30 93	20	\$26 49	20	\$35 16	20	\$22 08	18	\$10 13	21
February,	69 33	22	58 10	22	49 71	20	27 62	18	31 89	20	33 42	20	33 97	20	43 85	22	40 32	22	26 38	22
March,	94 43	23	79 00	27	79 59	26	34 78	22	34 12	16	56 08	26	38 60	21	44 71	20	56 12	27	18 51	27
April,	50 42	23	91 94	23	62 51	23	87 33	23	31 36	16	34 44	21	40 74	22	52 00	21	41 02	23	35 92	23
May,	45 33	22	49 12	23	48 16	22	49 78	22	23 22	15	46 32	22	8 82	18	40 71	19	62 21	22	46 35	22
June,	48 27	19	59 64	19	66 02	19	51 87	19	17 38	15	47 97	19	34 29	19	44 90	19	32 34	20	36 50	19
July,	73 87	19	27 09	16	39 28	19	45 31	19	31 15	19	44 80	17	44 71	19	39 77	19	23 42	19	22 91	19
August,	94 32	17	59 58	17	55 23	17	40 55	17	24 15	17	45 68	17	20 46	17	49 64	17	31 78	17	33 87	17
September,	61 68	19	45 60	19	57 46	19	57 75	19	14 81	10	41 71	19	23 96	19	44 91	19	22 46	15	57 81	19
October,	78 05	26	85 72	26	86 12	26	19 03	20	40 74	25	63 98	26	35 67	26	37 38	20	31 44	23	45 30	26
November,	49 33	23	56 78	23	50 06	23	42 74	23	34 02	23	53 04	23	44 63	23	32 33	20	46 61	23	37 50	23
December,	20 00	16	62 15	25	57 39	25	29 78	20	27 27	20	2 32	1	40 18	20	19 58	15	47 12	25	40 30	25
Total,	\$740 15	253	\$708 87	260	\$684 55	259	\$506 32	237	\$352 50	217	\$505 69	233	\$414 92	244	\$484 94	231	\$461 92	251	\$416 98	241

Lowest Individual Earnings.

January,	\$16 53	16	\$34 99	20	\$21 12	21	\$18 43	14	\$33 65	20	\$25 62	17	\$27 88	19	\$20 04	14	\$17 00	18	\$15 45	20
February,	22 71	16	33 69	19	37 20	22	25 59	13	20 61	19	28 12	18	18 30	17	20 37	14	24 15	17	13 39	15
March,	21 09	20	32 15	26	38 26	26	25 11	21	34 65	25	27 57	19	26 37	24	27 14	25	11 04	12	22 99	23
April,	26 33	18	32 58	16	38 37	22	35 59	21	17 72	12	21 72	18	19 70	18	30 01	21	19 75	13	24 44	19
May,	21 08	13	10 25	7	16 72	13	32 47	21	38 20	17	20 27	19	24 46	20	14 87	13	23 12	20	20 81	21
June,	18 36	16	22 25	15	18 34	10	20 45	15	24 63	12	16 60	16	21 06	15	14 95	14	20 59	17	11 60	17
July,	25 57	17	27 11	19	22 80	19	21 47	15	14 83	12	17 13	16	17 84	16	15 50	12	15 62	15	12 63	15
August,	22 36	17	20 62	13	19 27	16	19 83	13	21 62	15	19 45	15	8 88	8	20 22	16	22 93	17	10 78	15
September,	18 98	15	30 01	19	27 06	18	24 76	16	16 25	10	10 90	12	20 62	18	14 87	13	20 07	18	13 33	15
October,	19 53	16	27 55	16	28 94	21	35 83	26	43 85	24	32 13	21	31 26	24	17 69	12	15 35	16	18 13	17
November,	22 53	18	36 81	21	33 57	22	39 34	18	21 32	15	15 97	14	27 59	21	30 55	22	26 67	23	11 16	16
December,	13 41	11	29 94	21	34 36	24	30 03	24	19 02	15	26 92	21	14 52	14	16 30	13	22 68	20	15 98	16
Total,	\$248 53	193	\$337 98	212	\$336 01	234	\$328 90	217	\$306 35	196	\$232 40	206	\$258 48	214	\$241 90	189	\$230 02	206	\$190 74	209

No. 28.—NUMBER OF DAYS IN OPERATION DURING THE YEAR, 263.
Highest Individual Earnings.

1888.	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
January,	\$60 00	26	\$60 00	26	\$50 00	26	\$45 00	25	\$40 80	24	\$35 00	21	\$25 24	20	\$30 50	21	\$39 45	22	\$17 40	20
February,	50 00	23	45 00	22	34 80	20	42 25	21	43 05	21	40 00	21	43 20	22	39 84	23	40 50	24	40 40	21
March,	85 00	26	85 00	26	50 00	25	35 46	21	42 15	23	40 00	21	12 03	8	18 00	10	30 40	20	33 40	21
April,	60 00	25	60 00	25	48 00	25	50 40	25	36 90	24	36 89	23	15 72	10	20 00	10	29 60	20	40 11	22
May,	52 00	23	60 00	23	30 00	15	21 78	20	16 35	15	30 00	18	23 52	12	33 40	15	33 40	20	33 33	20
June,	50 01	20	50 00	20	19 20	12	21 42	15	19 56	15	20 91	15	18 72	12	35 03	20	25 40	19	23 14	18
July,	70 00	25	70 00	25	46 98	24	25 77	20	20 70	17	27 54	15	28 68	20	40 20	21	30 40	22	33 40	19
August,	60 00	25	60 00	25	51 27	25	40 47	21	41 76	20	40 00	20	13 53	8	31 40	20	34 00	22	32 03	20
September,	60 00	25	60 00	25	33 39	20	33 51	22	30 36	20	41 20	21	21 63	10	42 20	24	40 40	23	36 03	22
October,	65 00	24	65 00	24	51 40	25	41 01	23	40 41	24	38 40	21	22 56	12	38 94	24	41 20	24	37 03	23
November,	80 00	25	80 00	25	44 01	24	38 94	25	31 40	22	35 20	25	10 02	7	29 40	21	40 90	24	39 41	24
December,	80 00	25	80 00	25	45 10	24	40 50	25	35 50	23	40 00	24	15 00	10	36 40	22	38 60	24	37 90	23
Total,	\$772 00	292	\$775 00	291	\$504 35	265	\$436 51	267	\$398 94	253	\$425 14	251	\$449 85	151	\$395 31	231	\$424 25	261	\$423 58	253

Lowest Individual Earnings.

1888.	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
January,	\$21 30	25	\$16 40	24	\$20 40	20	\$25 60	22	\$19 80	18	\$20 80	19	\$9 07	19	\$23 70	22	\$30 08	20	\$21 90	21
February,	21 07	23	17 80	23	10 05	10	27 80	35	20 50	20	17 80	17	20 70	20	24 60	23	28 80	24	21 00	20
March,	20 00	26	18 40	18	10 40	20	25 00	24	29 70	23	20 00	19	23 00	22	24 00	23	26 40	24	27 40	26
April,	23 06	26	17 60	19	21 70	21	21 00	23	28 00	23	20 40	18	22 40	21	23 40	22	21 60	22	26 00	25
May,	18 04	24	14 90	21	22 30	20	23 40	22	20 40	20	21 80	19	21 80	20	23 40	21	25 00	23	27 80	26
June,	18 03	21	18 70	23	18 90	17	26 70	20	27 10	22	24 70	22	28 00	26	26 80	24	18 40	16	24 60	23
July,	18 40	20	20 05	20	17 60	16	20 90	19	26 30	21	21 61	21	26 80	25	23 80	23	19 70	15	21 30	21
August,	18 90	22	21 08	19	15 30	15	25 40	24	24 80	22	22 40	23	21 80	20	29 40	25	15 60	13	24 60	22
September,	15 07	21	21 50	21	13 05	14	24 00	23	22 30	22	23 80	21	22 70	21	27 80	24	14 90	12	21 80	20
October,	25 04	22	23 00	23	19 50	18	29 05	24	21 10	21	19 60	19	23 80	22	26 70	24	12 80	10	22 50	21
November,	23 25	21	18 40	22	20 70	21	27 00	23	20 10	20	13 40	12	15 00	14	28 90	25	13 90	10	30 70	26
December,	21 75	24	19 70	21	30 05	25	23 40	21	18 70	19	18 20	15	16 70	15	22 40	21	18 00	18	24 60	23
Total,	\$246 88	272	\$227 53	254	\$229 95	217	\$302 25	280	\$279 50	251	\$244 50	255	\$261 77	245	\$304 10	277	\$338 18	207	\$394 60	273

No. 29.—NUMBER OF DAYS IN OPERATION DURING THE YEAR, 260 1-2.

Highest Individual Earnings.

	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
1888.																				
January,	\$32 37	20	\$50 74	20	\$36 00	18	\$40 92	21½	\$42 67	20	\$77 87	22	\$48 80	25	\$54 25	21	\$37 60	18½	\$61 31	22
February,	31 56	17	22 75	14	38 85	15	9 75	6	9 75	6	60 18	19	55 00	20½	41 69	21	58 31	23½	41 50	22
March,	57 00	20	32 50	19	54 00	18	60 75	18	55 75	16	54 00	18	30 50	19	47 00	17	52 00	17	47 00	17
April,	63 00	19	32 00	17	45 00	27½	20 50	11½	23 50	13	41 00	20½	32 00	19	34 00	18	41 00	20½	43 00	21½
May,	31 50	16	23 50	13	42 24	19	22 00	12	22 00	12	36 50	19	25 50	15	31 50	14	46 24	20	46 25	18
June,	21 00	15	19 00	12	19 50	9	38 25	15	36 50	13	26 50	16	19 50	14	30 25	15	29 25	13	33 50	15
July,	36 00	20	30 00	17	30 00	17	45 50	20	44 00	20	56 50	20	37 00	20	53 50	20	29 00	18	50 00	19
August,	34 50	17	35 50	17	44 00	14½	54 75	18	54 75	17	47 00	18½	47 50	17	41 00	16	52 50	18	42 50	17
September,	37 65	21	36 31	22	42 25	19	55 88	20	53 81	20	29 75	18	60 80	21	46 03	20½	56 81	20½	54 24	21
October,	34 56	20	62 56	25	73 99	24	43 18	25	45 94	21	46 81	25	70 12	22	62 12	25	76 07	23	63 44	25
November,	42 07	23	60 82	25	40 25	22	50 68	26	48 50	25	47 19	25	70 18	26	71 95	26	48 56	22	70 55	26
December,	31 50	22	59 47	22	55 18	21	49 44	21	44 18	21	46 68	21	48 81	21	51 56	20	49 94	21	58 18	21
Total,	\$452 71	230	\$465 15	223	\$521 26	219	\$501 60	214	\$481 35	204	\$569 98	242	\$539 71	239½	\$564 88	233½	\$576 68	235	\$611 47	244½

Lowest Individual Earnings.

January,	\$27 13	18	\$42 00	21	\$38 06	20	\$37 56	17	\$47 68	20	\$30 62	19	\$44 26	22½	\$40 69	21	\$47 00	23½	\$35 44	21
February,	26 05	17	39 00	15½	24 94	16	37 81	20½	31 50	16	24 06	16	31 55	17	28 25	17	27 50	13½	28 44	18
March,	23 00	17	26 00	17	24 00	18	15 00	10	21 00	15	27 00	17	30 65	17½	29 50	19	23 00	13	28 50	19
April,	27 50	16	28 50	17	31 50	17	16 00	11	29 50	18	33 00	17	29 97	15½	30 50	17	30 00	17	25 00	15
May,	24 00	14	25 00	15	23 00	15	23 00	14	28 00	15	25 00	15	26 30	15	25 00	16	24 50	13	25 50	15
June,	18 00	14	18 50	14	18 50	12	19 50	13	16 50	12	19 50	15	19 00	14	19 00	13	19 50	14	23 50	14
July,	29 00	19	25 00	17	28 00	20	29 50	20	27 50	19	29 00	19	21 50	18	30 50	20	27 00	18	26 00	19
August,	32 00	15	30 50	16	32 50	16	31 50	16	34 00	17	34 00	17	33 40	17	39 50	18	31 50	17	38 00	17
September,	28 00	19	28 88	19	28 45	19	32 81	19	21 00	15	27 57	19	30 62	17	29 38	21	31 50	21	31 50	19
October,	37 19	25	36 75	21	41 55	25	41 63	21	46 37	25	40 25	24	42 73	25	45 94	25	42 68	25	44 19	25
November,	42 94	23	49 18	25	43 75	25	40 68	23	45 06	24	42 88	24	41 20	23½	46 81	26	43 07	22	34 13	19
December,	26 69	18	39 00	19½	47 25	23	43 31	18	39 81	21	35 00	19	24 59	20¼	37 62	20	34 50	17½	30 19	20
Total,	\$341 50	215	\$388 31	221	\$381 50	226	\$368 30	202½	\$387 92	217	\$367 88	221	\$375 77	226	\$402 69	233	\$387 43	214½	\$373 39	219

No. 30.—Highest Individual Earnings.

	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
1888.																				
January,	\$61 00	24	\$58 00	24	\$58 00	24	\$57 00	24	\$57 00	24	\$59 00	24	\$56 00	24	\$55 00	24	\$56 00	24	\$57 00	24
February,	62 00	22	50 00	21	50 00	21	54 00	22	61 00	23	61 00	22	55 00	22	51 00	22	51 00	22	56 00	22
March,	64 00	27	55 00	27	55 00	27	61 00	27	65 00	27	59 00	26	61 00	27	62 00	27	62 00	27	58 00	27
April,	55 00	25	50 00	24	50 00	24	51 00	25	50 00	25	54 00	25	54 00	25	51 00	22	53 00	25	50 00	25
May,	59 00	27	53 00	27	53 00	27	56 00	27	59 00	27	58 00	27	51 00	26	52 00	26	59 00	27	53 00	27
June,	61 00	26	48 00	25	48 00	25	49 00	26	53 00	27	49 00	26	53 00	26	53 00	26	52 00	26	49 00	26
July,	56 00	26	53 00	26	53 00	26	51 00	25	44 00	19	56 00	26	54 00	26	53 00	26	57 00	26	51 00	26
August,	47 00	20	51 00	22	51 00	22	50 00	22	53 00	22	51 00	22	51 00	22	49 00	22	52 00	22	48 00	22
September,	57 00	24	48 00	20	48 00	20	56 00	24	57 00	24	58 00	24	55 00	24	56 00	24	58 00	24	56 00	24
October,	63 00	27	59 00	26	52 00	27	53 00	27	56 00	27	55 00	27	58 00	27	47 00	25	46 00	25	59 00	27
November,	44 00	17	46 00	20	46 00	20	59 00	25	55 00	25	50 00	25	50 00	25	51 00	25	56 00	25	56 00	25
December,	65 00	26	61 00	26	61 00	26	63 00	26	58 00	26	61 00	26	63 00	26	60 00	26	63 00	26	58 00	26
Total,	\$694 00	291	\$625 00	289	\$625 00	289	\$665 00	300	\$668 00	296	\$671 00	300	\$661 00	300	\$640 00	296	\$655 00	299	\$651 00	301

Lowest Individual Earnings.

January,	\$36 00	20	\$38 00	24	\$30 00	24	\$33 00	24	\$28 00	22	\$31 00	22	\$31 00	22	\$16 00	12	\$31 00	22	\$31 00	22
February,	31 00	22	35 00	22	35 00	21	30 00	22	30 00	22	30 00	22	31 00	22	30 00	20	36 00	22	28 00	20
March,	29 00	24	34 00	26	36 00	26	27 00	20	35 00	27	27 00	20	35 00	27	35 00	22	38 00	27	34 00	24
April,	31 00	23	33 00	22	34 00	21	34 00	22	28 00	19	34 00	22	40 00	25	36 00	24	36 00	24	37 00	24
May,	39 00	27	27 00	25	30 00	25	30 00	21	31 00	25	32 00	21	31 00	21	34 00	21	35 00	22	36 00	22
June,	40 00	26	39 00	21	34 00	21	34 00	21	30 00	20	33 00	21	34 00	23	37 00	24	35 00	23	37 00	24
July,	38 00	24	37 00	24	35 00	22	35 00	24	34 00	23	36 00	24	33 00	21	34 00	21	36 00	24	36 00	23
August,	31 00	21	33 00	21	34 00	21	34 00	21	36 00	22	40 00	25	41 00	25	33 00	21	35 00	21	35 00	22
September,	39 00	24	37 00	22	36 00	23	36 00	22	35 00	23	36 00	22	36 00	23	37 00	24	31 00	20	30 00	20
October,	40 00	26	39 00	27	38 00	27	38 00	25	36 03	24	37 00	25	38 00	26	37 00	25	34 00	21	33 00	20
November,	36 00	21	38 00	20	36 00	20	36 00	22	31 00	13	38 00	22	38 00	21	36 00	20	37 00	22	32 00	18
December,	40 00	22	36 00	21	34 00	20	34 00	24	34 00	24	32 00	24	37 00	24	31 00	20	33 00	21	30 00	20
Total,	\$430 00	280	\$425 00	276	\$412 00	271	\$408 00	272	\$362 00	271	\$408 00	272	\$422 00	280	\$396 00	254	\$417 00	269	\$389 00	261

NO. 31.—NUMBER OF DAYS IN OPERATION DURING THE YEAR, 250.
Highest Individual Earnings.

1888.	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
January,	\$60 00	21	\$61 00	22	\$56 00	19	\$50 00	20	\$46 00	20	\$44 00	20	\$30 00	14	\$17 00	10	\$27 00	15	\$20 00	10
February,	58 00	22	54 00	20	55 00	20	52 00	18	45 00	18	48 00	20	19 00	10	23 00	11	39 00	18	35 00	17
March,	50 00	20	48 00	21	45 00	18	49 00	21	40 00	20	34 00	17	20 00	11	31 00	16	15 00	8	18 00	10
April,	35 00	15	35 00	16	40 00	20	33 00	17	34 00	18	38 00	19	29 00	14	20 00	10	14 00	8	21 00	10
May,	40 00	18	35 00	15	80 00	20	37 00	18	34 00	17	35 00	17	39 00	18	33 00	17	21 00	10	23 00	11
June,	40 00	15	32 00	12	35 00	18	40 00	16	31 00	15	30 00	16	23 00	12	32 00	15	20 00	11	20 00	10
July,	39 00	15	40 00	17	33 00	15	34 00	18	37 00	17	30 00	15	16 00	9	18 00	10	21 00	10	17 00	9
August,	25 00	10	36 00	15	21 00	10	25 00	14	30 00	16	30 00	16	23 00	11	21 00	10	19 00	9	26 00	12
September,	38 00	20	35 00	18	50 00	15	35 00	18	34 00	18	28 00	17	17 00	10	20 00	10	28 00	15	25 00	13
October,	45 00	22	40 00	20	30 00	16	40 00	21	42 00	20	41 00	21	24 00	13	23 00	10	25 00	14	30 00	14
November,	50 00	20	50 00	20	46 00	18	81 00	17	38 00	18	34 00	16	23 00	10	26 00	12	23 00	10	19 00	10
December,	48 00	23	44 00	21	43 00	18	41 00	23	40 00	24	41 00	20	17 00	9	17 00	9	25 00	12	21 00	12
Total,	\$528 00	221	\$510 00	217	\$464 00	207	\$467 00	223	\$451 00	221	\$433 00	214	\$280 00	141	\$281 00	140	\$277 00	140	\$275 00	138

Lowest Individual Earnings.

January,	\$29 00	15	\$28 00	16	\$21 00	10	\$20 00	15	\$15 00	10	\$41 00	20	\$40 00	21	\$44 00	20	\$43 00	21	\$27 00	15
February,	31 00	17	30 00	16	30 00	13	30 00	18	14 00	10	42 00	19	41 00	22	42 00	21	38 00	19	25 00	14
March,	30 00	17	28 00	17	17 00	10	34 00	15	30 00	15	38 00	19	37 00	18	39 00	18	35 00	17	22 00	10
April,	25 00	14	25 00	15	38 00	18	38 00	16	33 00	15	38 00	18	37 00	18	41 00	19	37 00	18	24 00	13
May,	27 00	15	23 00	14	15 00	10	30 00	14	21 00	10	34 00	18	37 00	19	41 00	20	42 00	20	17 00	9
June,	18 00	10	15 00	9	24 00	15	15 00	10	17 00	8	30 00	17	30 00	15	30 00	16	27 00	15	16 00	9
July,	19 00	9	16 00	9	20 00	12	17 00	10	23 00	12	25 00	13	29 00	14	27 00	15	25 00	14	21 00	12
August,	19 00	10	18 00	9	16 00	9	19 00	11	21 00	10	27 00	14	23 00	12	24 00	13	25 00	14	25 00	14
September,	21 00	12	20 00	11	16 00	10	16 00	9	26 00	14	30 00	17	25 00	15	30 00	14	30 00	15	18 00	10
October,	27 00	17	35 00	18	19 00	12	18 00	8	33 00	15	32 00	18	39 00	17	25 00	16	28 00	15	19 00	10
November,	27 00	14	31 00	17	30 00	15	23 00	12	25 00	14	37 00	18	38 00	19	25 00	17	25 00	16	27 00	13
December,	34 00	18	32 00	19	37 00	20	21 00	10	22 00	12	39 00	21	34 00	18	31 00	17	28 00	17	16 00	10
Totals,	\$307 00	168	\$303 00	170	\$283 00	154	\$281 00	148	\$280 00	145	\$413 00	212	\$404 00	210	\$399 00	206	\$383 00	201	\$257 00	132

No. 32.—NUMBER OF DAYS IN OPERATION DURING THE YEAR, 204.

Highest Individual Earnings.

	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
188.																				
January,	\$11 11	20	\$39 62	20	\$34 54	20	\$39 10	20	\$13 72	20	\$14 38	20	\$ 8 44	20	\$105 49	20	\$70 91	20	\$65 85	20
February,	27 51	10	30 10	10	25 50	10	31 25	10	35 60	10	50 00	10	40 10	10	55 40	10	31 90	10	51 42	10
March,	45 50	14	40 00	14	35 60	14	42 20	14	46 15	14	62 71	14	51 30	14	65 00	14	60 20	14	65 80	14
April,	92 56	22	65 40	22	49 18	22	61 10	22	70 30	22	80 74	22	68 32	22	71 31	22	84 96	22	74 32	22
May,	62 23	18	54 30	18	41 20	18	54 30	18	65 20	18	75 18	18	60 20	18	62 00	18	72 10	18	64 14	18
June,	85 59	23	70 81	23	60 25	23	71 20	23	75 00	23	85 16	23	80 10	23	79 32	23	90 13	23	84 10	23
July,	105 66	24	69 30	24	61 14	24	68 14	24	8 31	24	86 31	24	75 30	24	82 21	24	95 06	24	90 31	24
August,	46 94	12	40 30	12	25 13	12	42 30	12	50 20	12	50 16	12	45 14	12	61 31	12	71 02	12	50 10	12
September,	67 96	15	70 21	15	39 21	15	51 20	15	65 00	15	67 12	15	56 13	15	75 32	15	85 90	15	63 40	15
October,	80 69	19	75 30	19	50 21	19	67 30	19	61 30	19	70 21	19	64 02	19	85 20	19	95 30	19	74 21	19
November,	79 80	16	69 10	16	41 20	16	60 20	16	55 10	16	50 31	16	44 30	16	70 10	16	81 32	16	69 10	16
December,	52 10	11	41 36	11	30 25	11	42 30	11	41 10	11	35 10	11	33 10	11	50 20	11	40 11	11	50 15	11
Total,	\$198 75	204	\$665 83	204	\$493 41	204	\$630 79	204	\$658 98	204	\$717 38	204	\$976 45	204	\$862 86	204	\$932 91	204	\$803 00	204

Lowest Individual Earnings.

	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
January,	\$16 29	20	\$36 12	20	\$20 75	20	\$14 61	20	\$9 24	20	\$10 94	20	\$16 79	20	\$15 23	20	\$16 40	20	\$20 14	20
February,	13 93	10	21 32	10	18 71	10	13 21	10	8 16	10	9 94	10	15 35	10	12 10	10	11 21	10	16 14	10
March,	9 05	14	7 01	14	20 13	14	16 40	14	10 17	14	15 75	14	21 42	14	16 40	14	18 30	14	21 30	14
April,	31 91	22	13 98	22	25 40	22	20 21	22	15 18	22	27 30	22	26 21	22	18 30	22	17 40	22	33 00	22
May,	29 95	18	12 81	18	20 40	18	16 30	18	14 20	18	24 20	18	23 30	18	16 40	18	12 87	18	30 16	18
June,	21 44	23	14 43	23	26 30	23	20 78	23	12 30	23	28 10	23	20 14	23	18 30	23	14 30	23	32 15	23
July,	23 40	24	16 18	24	23 40	24	18 71	24	16 50	24	31 03	24	26 50	24	22 18	24	17 01	24	35 60	24
August,	10 92	12	12 08	12	18 60	12	14 30	12	10 60	12	20 02	12	13 00	12	16 14	12	13 10	12	20 40	12
September,	18 30	15	17 90	15	21 03	15	18 10	15	19 40	15	16 08	15	20 90	15	22 03	15	19 04	15	25 30	15
October,	20 40	19	22 01	19	26 10	19	22 04	19	23 30	19	18 90	19	22 11	19	26 40	19	23 30	19	31 02	19
November,	16 45	16	20 10	16	22 40	16	18 30	16	20 74	16	16 37	16	17 10	16	22 30	16	20 10	16	25 30	16
December,	9 08	11	15 30	11	14 20	11	13 27	11	16 30	11	10 40	11	15 00	11	20 26	11	17 30	11	21 60	11
Total,	\$221 17	204	\$199 24	204	\$257 43	204	\$206 23	204	\$176 09	204	\$229 03	204	\$237 62	204	\$226 04	204	\$300 33	204	\$312 71	204

No 33.—NUMBER OF DAYS IN OPERATION DURING THE YEAR, 212 1-2.
Highest Individual Earnings.

1888.	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
January,	\$16 67	16	\$ 8 30	15	\$12 90	16	\$10 28	14	\$37 75	13	\$37 95	14	\$37 95	14	\$34 28	13	\$37 40	13	\$33 55	13
February,	65 20	17	63 88	16	53 00	16	55 03	14	51 15	17	51 10	17	51 10	17	50 95	17	49 48	13	48 87	14
March,	56 28	16	65 48	17	64 98	17	63 00	17	62 45	17	60 88	15	60 88	15	58 77	15	59 23	17	56 70	17
April,	63 23	18	68 22	18	62 33	18	67 67	17	69 32	13	66 88	19	66 88	19	65 33	19	58 27	17	58 85	18
May,	84 15	20	79 68	19	74 95	19	78 03	19	83 40	20	76 55	18	72 28	20	75 62	19	80 97	20	74 45	20
June,	91 32	20	89 17	22	74 40	22	72 20	22	77 85	21	77 85	21	71 00	22	83 18	22	81 45	22	75 72	22
July,	69 50	17	60 25	18	57 00	18	56 00	18	67 00	20	55 00	20	61 25	18	56 25	19	66 17	20	58 50	20
August,	69 90	20	60 00	20	70 30	20	69 20	20	67 77	20	57 58	17	62 25	17	58 42	17	63 00	17	57 20	20
September,	54 82	16	55 67	16	58 25	17	61 50	18	54 33	19	59 50	20	57 17	19	57 50	18	59 58	19	58 75	19
October,	62 92	20	61 42	20	64 50	20	72 75	20	67 08	20	66 08	20	69 33	20	62 67	20	66 81	20	65 17	20
November,	59 60	20	60 00	20	62 40	22	60 33	23	67 83	22	67 33	22	59 00	19	57 17	23	59 10	21	56 00	21
December,	67 20	20	53 92	22	56 40	22	56 00	21	56 80	22	55 50	22	53 60	22	52 42	21	55 40	21	52 00	20
Total,	\$790 79	220	\$566 49	223	\$741 41	227	\$751 99	223	\$761 65	226	\$727 37	222	\$722 69	222	\$712 56	223	\$740 29	220	\$95 76	224

Lowest Individual Earnings.

January,	\$18 95	15	\$22 05	15	\$31 90	14	\$19 85	16	\$28 35	14	\$26 95	15	\$22 00	14	\$22 00	17	\$22 68	17	\$19 80	16
February,	22 50	14	24 75	16	24 20	16	25 65	16	27 90	16	24 30	17	23 40	14	23 40	17	22 00	17	19 80	14
March,	24 75	14	20 90	14	24 80	16	22 95	16	27 60	14	21 75	14	20 25	14	23 50	15	32 40	17	29 70	17
April,	23 85	19	29 25	18	26 95	17	31 35	19	29 70	18	28 80	18	28 25	17	30 15	18	28 05	19	28 25	19
May,	32 35	19	27 50	20	33 55	20	29 70	20	36 85	19	33 10	18	37 95	19	31 35	18	27 10	18	33 00	19
June,	29 35	20	35 45	20	32 45	17	30 35	17	34 65	19	36 30	19	28 05	18	25 20	18	31 10	20	16 20	18
July,	23 00	16	29 50	16	30 00	16	30 50	18	26 50	16	32 50	17	26 50	17	32 50	17	28 80	18	24 10	16
August,	25 60	19	29 00	18	23 50	17	31 00	20	30 00	18	30 50	20	28 50	19	28 00	18	27 50	20	26 50	18
September,	30 00	17	21 10	17	28 50	17	28 50	17	24 80	17	28 10	16	24 40	18	22 40	16	22 50	18	26 10	16
October,	24 80	18	20 40	18	28 50	20	34 00	19	27 00	18	27 50	19	30 10	20	28 00	17	29 50	19	26 00	19
November,	27 10	17	33 00	20	29 00	20	29 50	19	21 20	19	25 00	19	26 10	18	25 10	20	27 50	19	31 10	22
December,	28 50	20	21 50	17	29 00	19	29 00	19	22 00	20	29 50	20	22 00	20	33 00	22	32 00	21	25 00	19
Total,	\$311 15	208	\$317 00	209	\$331 85	209	\$342 35	217	\$326 55	203	\$347 20	214	\$314 80	205	\$323 50	213	\$331 83	213	\$205 85	213

No. 31.—NUMBER OF DAYS IN OPERATION DURING THE YEAR, 226.
Highest Individual Earnings.

	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
1888.																				
February,	\$92 40	23	\$57 37	18	\$81 62	22	\$84 39	22	\$34 84	22	\$62 13	23	\$65 23	23	\$105 68	24	\$81 77	22	\$51 10	14
March,	82 28	22	47 81	16	87 05	23	76 63	21	72 22	20	73 25	25	53 72	20	90 54	21	83 84	22	72 76	24
April,	20 40	8	43 28	11	63 20	14	40 36	12	40 36	12	41 01	14	31 28	14	42 22	13	50 55	14	57 42	13
May,	44 20	15	42 84	10	63 06	14	62 63	15	60 06	13	48 45	15	40 74	14	50 60	15	38 25	11	45 47	14
June,	71 40	17	52 78	17	83 26	20	91 83	21	93 18	21	68 97	21	65 84	21	68 74	21	91 75	20	58 34	18
July,	60 24	16	28 35	11	93 06	20	77 31	17	75 24	17	56 43	17	50 36	17	60 02	17	53 00	17	29 73	9
August,	65 28	15	35 69	11	71 67	16	92 84	16	85 91	16	53 01	16	53 21	16	60 61	16	55 09	14	23 87	8
September,	47 52	16	25 97	14	70 31	14	65 11	15	67 00	15	56 43	16	48 19	14	63 83	15	76 25	15	45 51	15
October,	89 16	22	42 93	20	91 66	20	104 09	21	102 33	21	69 54	22	69 37	20	88 96	22	70 75	20	99 75	22
November,	67 32	20	57 49	18	70 08	17	69 17	16	72 67	17	66 12	21	60 70	20	63 12	20	63 12	20	77 50	20
December,	91 12	23	58 94	19	78 92	19	76 95	19	77 76	19	64 71	23	54 80	14	84 67	23	79 41	22	104 75	23
January, 1889, . .	74 86	18	54 61	17	56 19	15	61 10	18	53 99	17	60 42	20	72 45	19	89 51	20	89 51	20	77 00	18
Total,	\$806 18	215	\$554 06	182	\$912 11	213	\$902 41	213	\$885 56	212	\$720 50	233	\$665 94	212	\$867 90	227	\$835 40	217	\$723 20	198

Lowest Individual Earnings.

February,	\$37 20	17	\$32 20	24	\$31 50	19	\$37 53	20	\$37 10	24	\$39 20	23	\$31 20	22	\$42 53	25	\$33 40	24	\$30 45	24
March,	51 20	24	22 81	16	32 50	18	46 76	23	35 20	23	39 90	23	42 40	24	41 00	25	56 00	24	28 65	21
April,	30 64	14	25 19	14	20 50	12	27 66	14	23 19	15	27 66	14	18 36	13	31 60	14	21 00	14	20 10	14
May,	31 28	14	21 97	15	27 00	15	29 92	15	21 33	14	25 20	15	20 63	14	21 00	15	21 00	15	24 50	15
June,	46 92	21	38 46	20	30 50	17	42 16	21	31 05	22	36 46	22	29 24	20	40 60	22	35 70	22	28 70	20
July,	21 79	9	16 56	14	24 00	15	25 16	15	21 76	12	19 60	14	25 84	15	28 30	15	21 00	15	18 20	12
August,	22 50	9	16 10	10	22 50	15	24 48	15	13 38	10	20 97	13	29 24	15	15 90	14	14 84	10	15 35	11
September,	8 88	4	29 80	15	23 00	14	25 84	14	17 56	16	24 58	16	19 04	10	19 61	16	19 61	16	33 00	16
October,	36 14	15	30 84	20	28 00	20	36 72	19	21 00	22	34 78	22	20 35	17	28 09	22	27 11	22	39 75	22
November,	25 84	12	31 18	19	22 00	15	31 21	17	25 50	20	27 60	20	31 96	20	32 33	20	31 27	20	36 00	20
December,	31 83	14	33 00	20	31 50	19	22 91	16	33 50	23	25 20	20	23 18	13	30 38	21	29 76	21	31 50	21
January, 1889, . .	40 12	16	22 80	14	30 00	18	24 38	19	26 00	19	26 40	19	31 96	18	30 80	18	29 40	18	33 75	19
Total,	\$383 84	169	\$330 91	201	\$523 01	197	\$374 76	208	\$306 57	230	\$340 29	221	\$323 40	201	\$362 14	224	\$333 09	221	\$339 95	215

No. 35.—NUMBER OF DAYS IN OPERATION DURING THE YEAR, 189.

Highest Individual Earnings.

	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
1888.																				
January,	\$73 28	22 $\frac{1}{2}$	\$69 20	22 $\frac{1}{2}$	\$79 30	22 $\frac{1}{2}$	\$63 30	22 $\frac{1}{2}$	\$47 58	22 $\frac{1}{2}$	\$55 05	22 $\frac{1}{2}$	\$52 20	22 $\frac{1}{2}$	\$61 61	22 $\frac{1}{2}$	\$44 65	22 $\frac{1}{2}$	\$49 12	22 $\frac{1}{2}$
February,	78 25	17 $\frac{1}{2}$	56 16	17 $\frac{1}{2}$	71 70	17 $\frac{1}{2}$	49 00	17 $\frac{1}{2}$	59 51	17 $\frac{1}{2}$	68 60	17 $\frac{1}{2}$	52 15	17 $\frac{1}{2}$	56 12	17 $\frac{1}{2}$	62 23	17 $\frac{1}{2}$	37 48	17 $\frac{1}{2}$
March,	62 73	11 $\frac{1}{2}$	50 87	11 $\frac{1}{2}$	42 72	11 $\frac{1}{2}$	38 56	11 $\frac{1}{2}$	40 13	11 $\frac{1}{2}$	25 89	11 $\frac{1}{2}$	41 82	11 $\frac{1}{2}$	22 72	11 $\frac{1}{2}$	23 72	11 $\frac{1}{2}$	23 83	11 $\frac{1}{2}$
April,	49 20	14	32 43	14	36 83	14	39 49	14	57 44	14	21 51	14	32 82	14	26 97	14	31 41	14	36 06	14
May,	55 17	10	60 13	10	29 58	10	34 66	10	81 08	10	20 40	10	36 78	10	31 14	10	26 95	10	31 14	10
June,	60 30	13 $\frac{1}{2}$	49 40	13 $\frac{1}{2}$	49 26	13 $\frac{1}{2}$	54 63	13 $\frac{1}{2}$	40 16	13 $\frac{1}{2}$	35 63	13 $\frac{1}{2}$	40 17	13 $\frac{1}{2}$	47 91	13 $\frac{1}{2}$	31 00	13 $\frac{1}{2}$	52 82	13 $\frac{1}{2}$
July,	52 95	11 $\frac{1}{2}$	58 37	11 $\frac{1}{2}$	52 95	11 $\frac{1}{2}$	69 36	11 $\frac{1}{2}$	37 40	11 $\frac{1}{2}$	37 88	11 $\frac{1}{2}$	35 31	11 $\frac{1}{2}$	36 24	11 $\frac{1}{2}$	32 37	11 $\frac{1}{2}$	49 32	11 $\frac{1}{2}$
August,	75 69	15 $\frac{1}{2}$	49 63	15 $\frac{1}{2}$	52 95	15 $\frac{1}{2}$	66 61	15 $\frac{1}{2}$	52 20	15 $\frac{1}{2}$	52 20	15 $\frac{1}{2}$	50 55	15 $\frac{1}{2}$	47 94	15 $\frac{1}{2}$	34 20	15 $\frac{1}{2}$	56 19	15 $\frac{1}{2}$
September,	61 14	11 $\frac{1}{2}$	73 78	11 $\frac{1}{2}$	44 06	11 $\frac{1}{2}$	11 $\frac{1}{2}$	11 $\frac{1}{2}$	47 48	11 $\frac{1}{2}$	47 48	11 $\frac{1}{2}$	40 76	11 $\frac{1}{2}$	42 07	11 $\frac{1}{2}$	30 27	11 $\frac{1}{2}$	31 25	11 $\frac{1}{2}$
October,	99 28	22 $\frac{1}{2}$	79 14	22 $\frac{1}{2}$	90 75	22 $\frac{1}{2}$	81 55	22 $\frac{1}{2}$	94 65	22 $\frac{1}{2}$	94 65	22 $\frac{1}{2}$	66 17	22 $\frac{1}{2}$	60 06	22 $\frac{1}{2}$	75 96	22 $\frac{1}{2}$	50 35	22 $\frac{1}{2}$
November,	79 93	23 $\frac{1}{2}$	79 67	23 $\frac{1}{2}$	88 31	23 $\frac{1}{2}$	76 81	23 $\frac{1}{2}$	65 14	23 $\frac{1}{2}$	65 13	23 $\frac{1}{2}$	53 80	23 $\frac{1}{2}$	47 22	23 $\frac{1}{2}$	73 13	23 $\frac{1}{2}$	51 13	23 $\frac{1}{2}$
December,	49 52	15	50 51	15	58 09	15	51 71	15	41 80	15	41 80	15	33 04	15	40 59	15	50 10	15	37 33	15
Total,	\$802 39	189	\$729 59	189	\$696 50	189	\$673 10	189	\$664 57	189	\$565 72	189	\$535 07	189	\$520 59	189	\$515 99	189	\$506 02	189

Lowest Individual Earnings.

	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
January,	\$35 75	22 $\frac{1}{2}$	\$25 34	22 $\frac{1}{2}$	\$30 40	22 $\frac{1}{2}$	\$29 48	22 $\frac{1}{2}$	\$14 64	22 $\frac{1}{2}$	\$29 34	22 $\frac{1}{2}$	\$24 52	22 $\frac{1}{2}$	\$23 37	22 $\frac{1}{2}$	\$27 39	22 $\frac{1}{2}$	\$25 52	22 $\frac{1}{2}$
February,	21 95	17 $\frac{1}{2}$	15 25	17 $\frac{1}{2}$	14 57	17 $\frac{1}{2}$	14 33	17 $\frac{1}{2}$	20 80	17 $\frac{1}{2}$	18 85	17 $\frac{1}{2}$	16 74	17 $\frac{1}{2}$	17 14	17 $\frac{1}{2}$	36 21	17 $\frac{1}{2}$	19 01	17 $\frac{1}{2}$
March,	14 72	11 $\frac{1}{2}$	15 65	11 $\frac{1}{2}$	16 38	11 $\frac{1}{2}$	19 63	11 $\frac{1}{2}$	26 63	11 $\frac{1}{2}$	18 61	11 $\frac{1}{2}$	18 98	11 $\frac{1}{2}$	16 66	11 $\frac{1}{2}$	13 89	11 $\frac{1}{2}$	17 39	11 $\frac{1}{2}$
April,	17 22	14	22 53	14	19 98	14	21 60	14	13 83	14	15 39	14	14 73	14	15 10	14	18 49	14	25 14	14
May,	14 13	10	15 80	10	12 96	10	14 56	10	10 36	10	13 23	10	21 08	10	10 89	10	12 96	10	14 49	10
June,	20 73	13 $\frac{1}{2}$	18 99	13 $\frac{1}{2}$	23 02	13 $\frac{1}{2}$	16 17	13 $\frac{1}{2}$	20 34	13 $\frac{1}{2}$	22 18	13 $\frac{1}{2}$	13 23	13 $\frac{1}{2}$	18 61	13 $\frac{1}{2}$	16 74	13 $\frac{1}{2}$	13 44	13 $\frac{1}{2}$
July,	17 19	11 $\frac{1}{2}$	20 67	11 $\frac{1}{2}$	20 64	11 $\frac{1}{2}$	20 55	11 $\frac{1}{2}$	13 86	11 $\frac{1}{2}$	14 55	11 $\frac{1}{2}$	15 12	11 $\frac{1}{2}$	19 48	11 $\frac{1}{2}$	12 42	11 $\frac{1}{2}$	14 85	11 $\frac{1}{2}$
August,	33 79	15 $\frac{1}{2}$	15 21	15 $\frac{1}{2}$	32 55	15 $\frac{1}{2}$	24 51	15 $\frac{1}{2}$	18 99	15 $\frac{1}{2}$	21 27	15 $\frac{1}{2}$	23 87	15 $\frac{1}{2}$	20 19	15 $\frac{1}{2}$	19 65	15 $\frac{1}{2}$	16 38	15 $\frac{1}{2}$
September,	28 41	11 $\frac{1}{2}$	18 26	11 $\frac{1}{2}$	35 61	11 $\frac{1}{2}$	17 16	11 $\frac{1}{2}$	20 34	11 $\frac{1}{2}$	19 96	11 $\frac{1}{2}$	24 10	11 $\frac{1}{2}$	15 66	11 $\frac{1}{2}$	17 88	11 $\frac{1}{2}$	10 53	11 $\frac{1}{2}$
October,	37 35	22 $\frac{1}{2}$	43 88	22 $\frac{1}{2}$	33 09	22 $\frac{1}{2}$	37 44	22 $\frac{1}{2}$	87 17	22 $\frac{1}{2}$	36 77	22 $\frac{1}{2}$	34 20	22 $\frac{1}{2}$	38 55	22 $\frac{1}{2}$	23 98	22 $\frac{1}{2}$	34 35	22 $\frac{1}{2}$
November,	34 50	23 $\frac{1}{2}$	49 35	23 $\frac{1}{2}$	29 05	23 $\frac{1}{2}$	28 80	23 $\frac{1}{2}$	30 72	23 $\frac{1}{2}$	83 27	23 $\frac{1}{2}$	30 41	23 $\frac{1}{2}$	29 01	23 $\frac{1}{2}$	20 91	23 $\frac{1}{2}$	19 98	23 $\frac{1}{2}$
December,	25 62	15	25 89	15	17 16	15	21 63	15	23 61	15	16 71	15	18 89	15	24 43	15	11 70	15	17 01	15
Total,	\$708 35	189	\$286 32	189	\$285 41	189	\$265 86	189	\$261 24	189	\$160 13	189	\$255 87	189	\$250 14	189	\$232 25	189	\$218 09	189

No. 36.—NUMBER OF DAYS IN OPERATION DURING THE YEAR, 235.
Highest Individual Earnings.

	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	No. of days.		No. of days.		No. of days.		No. of days.		No. of days.		No. of days.		No. of days.		No. of days.		No. of days.		No. of days.	
	Earnings.		Earnings.		Earnings.		Earnings.		Earnings.		Earnings.		Earnings.		Earnings.		Earnings.		Earnings.	
1888.																				
January,	\$76 49	23	\$64 55	22	\$63 39	20	\$65 44	22	\$61 75	22	\$62 90	21	\$19 54	21	\$50 50	14	\$17 99	21	\$13 02	20
February,	54 15	20	66 62	23	56 70	17	50 32	25	60 57	25	31 00	14	37 37	18	46 34	20	44 77	20	43 24	22
March,	58 12	23	58 17	21	50 09	17	62 24	23	44 77	21	47 14	19	60 82	17	55 14	17	46 48	22	35 81	22
April,	21 45	10	26 62	10	20 89	6	30 82	10	25 24	9	23 97	9	29 67	11	31 39	10	21 60	10	11 70	9
May,	45 50	15	52 87	14	49 29	16	32 50	13	49 50	15	41 72	15	31 45	15	23 50	12	24 02	16	24 85	15
June,	37 22	14	37 81	13	32 41	12	25 11	12	34 67	13	32 13	12	25 85	13	18 56	8	19 46	13	20 96	13
July,	41 40	16	40 41	16	38 04	12	31 91	17	34 16	16	32 10	13	34 94	14	23 24	14	20 80	15	22 36	15
August,	40 97	22	40 86	20	34 94	18	33 88	20	40 95	20	33 99	17	33 32	16	19 22	17	21 95	14	24 76	18
September,	50 84	20	53 29	20	53 02	20	47 36	18	53 19	22	33 33	15	45 48	11	19 62	15	25 34	17	30 38	18
October,	64 01	24	55 99	23	60 96	22	54 10	23	45 09	23	61 34	21	50 46	23	33 38	22	33 44	20	38 26	23
November,	56 09	21	47 67	20	57 26	18	40 85	20	33 93	21	52 90	21	41 41	19	39 41	20	51 22	18	35 62	21
December,	53 80	24	46 86	19	50 24	20	46 87	19	40 24	23	74 05	24	47 59	20	36 27	20	38 29	18	41 18	22
Total,	\$600 04	230	\$591 75	221	\$567 43	198	\$529 43	223	\$527 11	231	\$526 36	204	\$187 93	206	\$393 60	199	\$378 36	204	\$372 14	218

Lowest Individual Earnings.

January,	\$12 66	18	\$40 94	22	\$0 49	22	\$36 83	20	\$30 98	18	\$29 33	19	\$25 47	18	\$31 27	18	\$28 76	18	\$27 91	20
February,	33 32	23	35 61	23	36 50	22	36 22	23	28 28	20	34 80	22	35 55	18	32 69	23	25 80	20	29 88	23
March,	28 19	21	33 21	21	29 47	22	32 29	24	24 99	18	21 96	20	19 51	16	25 29	20	24 36	22	23 29	17
April,	11 61	9	13 12	11	9 83	7	16 01	9	9 73	8	10 17	9	14 53	10	11 45	9	10 28	9	13 45	8
May,	28 85	15	19 89	15	25 53	15	20 65	15	20 65	15	22 05	14	20 59	12	20 07	15	20 14	15	16 35	13
June,	15 12	13	16 10	13	15 84	12	15 92	13	15 16	13	16 40	12	15 10	12	14 18	12	14 20	11	15 84	14
July,	21 40	15	23 24	15	20 66	14	23 20	16	23 90	15	21 22	13	19 92	13	23 06	14	22 20	16	19 94	14
August,	23 08	17	21 56	16	23 74	17	21 56	16	26 11	16	19 62	16	23 14	17	21 46	17	21 54	18	16 76	15
September,	32 44	18	30 31	19	30 18	17	33 86	18	29 38	19	27 94	17	29 38	16	29 32	18	29 40	16	24 76	16
October,	45 22	23	41 43	24	38 08	23	39 74	23	38 06	23	38 48	23	41 24	23	36 26	22	34 00	20	38 88	23
November,	44 50	21	35 63	21	29 51	18	37 90	2	34 56	21	30 38	19	30 82	20	26 94	18	30 88	18	32 88	21
December,	39 96	22	40 30	24	52 02	24	36 00	23	40 04	21	40 16	23	36 22	21	29 78	20	36 01	21	22 92	19
Total,	\$361 35	2 5	\$351 28	224	\$51 88	213	\$319 63	221	\$321 92	210	\$312 51	207	\$311 47	159	\$301 77	206	\$297 10	204	\$282 36	203

No. 37—NUMBER OF DAYS IN OPERATION DURING THE YEAR 200.
Highest Individual Earnings.

1888.	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
January,	\$14 41	10	\$20 10	11	\$24 72	9	\$26 57	11	\$31 00	11	\$22 08	8	\$17 57	10	\$16 93	10	\$28 76	11	\$36 87	11
February,	27 37	15	45 21	15	40 31	15	52 77	15	47 22	15	38 62	14	48 07	15	33 09	15	46 00	15	51 21	15
March,	65 38	25	52 86	22	69 35	25	73 99	26	47 29	19	74 67	24	72 10	27	64 95	24	71 30	27	52 61	26
April,	40 36	16	67 73	23	53 75	20	61 03	23	77 28	25	63 13	22	58 45	22	68 14	21	59 62	25	51 37	25
May,	23 10	11	27 14	11	45 64	20	41 81	13	22 94	6	39 19	12	29 92	14	41 77	12	31 65	14	36 32	14
June,	23 60	11	25 91	11	52 11	21	58 56	14	13 31	10	38 53	14	18 85	12	43 75	14	45 10	14	47 60	14
July,	35 82	16	47 31	16	49 61	16	56 33	17	16 97	16	43 75	18	35 95	18	56 27	18	37 72	17	48 73	18
August,	20 75	9	14 66	7	30 57	8	23 03	10	31 73	10	27 23	9	25 83	9	34 02	9	26 13	9	30 80	10
September,	27 72	16	29 50	16	38 67	16	42 04	16	46 10	15	46 82	16	29 25	16	59 74	16	18 79	16	33 99	15
October,	29 60	11	22 41	12	24 38	12	32 56	12	38 18	12	44 70	12	23 66	12	50 99	12	31 77	12	27 39	12
November,	31 67	16	17 20	11	59 69	16	40 08	16	46 80	15	34 18	16	30 26	16	37 93	16	43 42	16	36 35	16
December,	31 65	19	39 40	21	59 11	22	50 20	21	64 10	21	60 86	16	31 72	22	32 12	21	61 38	22	66 01	22
Total,	\$374 43	175	\$109 49	176	\$518 21	200	\$561 97	194	\$482 92	175	\$334 61	181	\$424 63	193	\$539 67	188	\$523 68	198	\$519 28	198

Lowest Individual Earnings.

1889.	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
January,	\$5 00	10	\$15 84	11	\$23 94	9	\$14 07	11	\$6 50	5	\$5 13	11	\$13 42	11	\$13 54	10	\$18 63	8	\$19 17	11
February,	25 45	15	21 83	7	42 76	15	24 38	15	26 96	15	23 90	15	25 79	15	10 31	7	32 51	8	26 72	15
March,	37 12	19	33 53	21	28 00	18	26 60	19	36 87	22	24 75	12	64 44	24	31 98	24	55 47	27	39 59	21
April,	49 06	24	27 71	18	46 01	25	43 76	23	28 23	16	29 58	17	61 99	22	32 60	14	48 89	23	39 75	23
May,	24 19	12	30 03	12	31 02	13	5 72	6	31 49	11	26 37	12	42 34	13	17 87	13	22 77	14	23 17	14
June,	34 21	14	26 16	12	32 26	12	30 57	8	31 94	12	41 68	13	47 67	13	25 49	12	29 12	14	28 15	14
July,	31 54	18	25 67	16	35 58	16	33 87	17	36 29	17	42 16	18	43 57	16	24 00	17	38 95	18	29 23	16
August,	20 39	9	17 69	9	24 18	9	10 62	9	21 67	9	4 25	4	8 27	7	11 15	8	31 96	11	20 46	9
September,	31 01	16	29 62	16	35 17	24	24 49	16	32 29	15	27 35	15	3 98	3	18 42	11	36 83	12	31 50	16
October,	30 28	12	33 07	12	30 09	11	25 11	12	29 42	12	21 86	12	22 00	12	15 87	10	20 58	11	27 90	12
November,	26 30	16	27 84	16	33 40	14	31 20	16	32 67	15	23 31	16	24 40	16	23 96	15	33 39	14	31 49	16
December,	26 22	18	32 86	20	50 06	22	31 23	22	40 96	19	23 78	16	26 88	22	23 01	18	33 37	15	39 12	21
Total,	\$350 77	183	\$321 76	170	\$412 50	178	\$301 62	174	\$361 33	168	\$304 12	161	\$388 79	174	\$238 20	159	\$412 55	175	\$359 16	191

No. 38.—NUMBER OF DAYS IN OPERATION DURING THE YEAR, 282.
Highest Individual Earnings.

1888.	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
January,	\$51 63	23	\$32 63	22	\$56 85	22	\$11 31	23	\$61 78	23	\$16 20	20	\$15 22	22	\$15 22	20	\$54 74	23	\$17 60	20
February,	32 98	16	37 91	17	36 02	17	43 52	17	43 79	17	39 44	17	35 70	17	39 79	17	38 10	17	17 68	10
March,	23 72	20	31 07	20	49 26	20	31 38	20	37 40	20	39 26	19	23 71	19	28 71	19	29 91	20	30 28	20
April,	46 41	24	45 13	21	67 05	24	44 37	24	48 56	23	39 29	23	41 61	24	43 15	21	27 23	18	37 02	22
May,	55 31	23	56 72	26	46 16	26	57 81	26	61 10	26	51 81	22	54 87	26	50 13	23	53 07	26	55 69	26
June,	67 83	20	50 38	21	46 05	20	50 79	21	52 28	21	52 38	26	41 98	21	48 91	20	48 96	21	43 45	21
July,	18 58	9	41 36	22	60 89	22	33 86	21	48 91	22	36 35	19	39 48	22	50 70	22	23 87	12	41 61	22
August,	76 20	26	58 41	26	49 26	27	51 10	27	56 41	25	49 69	26	53 21	27	61 82	27	61 40	27	54 46	26
September,	54 93	20	62 03	21	62 03	21	59 05	25	56 76	24	51 10	22	54 88	24	48 85	25	50 58	25	55 43	25
October,	41 01	18	65 15	27	64 26	25	59 97	27	68 54	27	53 66	24	69 07	26	56 00	27	54 77	27	63 90	25
November,	57 81	25	55 83	24	58 55	24	57 83	25	59 62	25	56 31	25	57 53	21	51 41	25	49 57	25	57 12	23
December,	62 79	25	58 75	25	44 19	23	55 99	25	62 83	25	55 99	21	58 75	25	29 99	16	58 45	25	52 93	25
Total,	\$594 36	219	\$394 71	271	\$681 06	271	\$605 01	281	\$657 98	278	\$561 48	267	\$575 06	277	\$557 18	266	\$552 68	266	\$560 23	265

Lowest Individual Earnings.

1888.	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
January,	\$18 28	22	\$50 32	23	\$51 63	23	\$47 91	22	\$45 58	21	\$40 12	19	\$51 71	22	\$43 52	20	\$12 50	21	\$12 16	22
February,	35 36	17	35 02	17	31 00	16	36 72	16	35 86	16	31 23	15	35 36	17	27 17	13	26 51	15	19 01	9
March,	30 61	20	28 42	17	28 91	20	28 73	20	30 61	19	27 54	19	27 48	19	26 69	17	19 18	15	16 66	14
April,	37 61	22	37 03	22	41 62	24	39 78	24	40 39	21	40 08	21	33 05	21	32 95	21	33 05	21	32 13	21
May,	52 33	25	56 02	26	49 83	26	49 57	26	51 46	26	45 29	23	49 11	26	41 00	23	44 99	26	39 47	22
June,	44 98	21	44 98	21	42 48	20	43 97	21	37 17	20	41 71	21	42 53	21	33 66	19	33 17	21	33 25	20
July,	38 86	22	37 91	22	39 16	22	39 63	21	37 30	21	36 72	21	36 67	21	33 04	20	35 50	22	32 39	21
August,	48 65	25	53 86	27	52 07	27	52 81	26	45 90	25	54 83	26	47 59	26	35 45	20	53 15	27	36 21	22
September,	45 90	23	39 47	20	39 48	21	51 05	25	43 19	22	46 16	24	31 83	20	38 25	21	46 51	27	33 96	20
October,	50 79	24	57 53	27	56 92	27	51 66	27	44 37	24	43 46	21	30 60	18	36 91	21	43 76	26	37 02	21
November,	46 29	22	48 01	25	52 91	25	48 65	25	51 71	25	45 90	24	46 51	25	35 80	19	45 80	25	33 96	23
December,	51 41	21	58 44	25	53 08	25	50 80	25	48 95	24	50 75	25	45 29	24	33 05	18	37 91	23	36 41	23
Total,	\$531 01	267	\$547 07	275	\$542 23	276	\$541 31	279	\$513 99	269	\$503 89	262	\$483 73	260	\$417 55	232	\$473 07	270	\$392 66	240

No. 39.—NUMBER OF DAYS IN OPERATION DURING THE YEAR, 249.
Highest Individual Earnings.

	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
1888.																				
January,	\$61 15	25	\$64 00	25	\$63 10	25	\$63 05	25	\$60 60	25	\$60 00	25	\$59 70	25	\$58 80	25	\$58 10	25	\$57 95	25
February,	39 75	14	39 10	14	38 70	14	37 00	14	36 60	14	36 12	14	35 70	14	35 45	14	35 10	14	31 20	14
March,	63 80	23	63 35	23	61 25	23	60 09	23	59 60	23	58 40	23	57 90	23	57 75	23	57 70	23	57 00	23
April,	62 20	24	62 12	24	6 00	24	60 70	24	59 75	24	59 24	24	59 20	24	56 10	24	56 00	24	51 30	24
May,	52 80	19	52 00	19	41 60	19	42 25	19	41 60	19	41 01	19	40 69	19	40 00	19	38 65	19	38 00	19
June,	45 00	21	44 10	21	43 60	21	41 95	21	40 26	21	40 16	21	39 80	21	39 00	21	38 17	21	35 20	21
July,	50 40	20	49 90	20	49 90	20	49 70	20	49 21	20	48 50	20	47 40	20	46 20	20	42 65	20	41 70	20
August,	39 10	14	38 15	14	37 60	14	37 40	14	36 40	14	36 20	14	31 70	14	31 00	14	32 15	14	31 90	14
September,	39 50	21	38 50	21	38 50	21	37 95	21	37 90	21	37 10	21	36 90	21	36 15	21	35 95	21	35 80	21
October,	45 00	23	43 80	23	42 60	23	41 80	23	41 05	23	40 80	23	40 27	23	40 09	23	40 00	23	40 38	23
November,	56 09	24	51 87	24	53 60	24	52 12	24	51 40	24	50 00	24	48 40	24	47 60	24	46 15	24	44 19	24
December,	42 10	21	41 65	21	40 17	21	40 00	21	39 97	21	39 84	21	38 60	21	37 25	21	36 95	21	35 45	21
Total,	\$599 89	249	\$591 54	249	\$574 62	249	\$563 01	249	\$554 34	249	\$547 32	249	\$539 26	249	\$528 39	249	\$517 57	249	\$506 07	249

Lowest Individual Earnings.

	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
January,	\$11 00	25	\$40 05	25	\$39 75	25	\$39 10	25	\$38 62	25	\$38 04	25	\$37 20	25	\$36 00	25	\$35 15	25	\$31 08	25
February,	26 40	14	26 00	14	25 75	14	24 80	14	23 30	14	22 75	14	22 00	14	21 60	14	21 00	14	20 49	14
March,	39 95	23	38 80	23	38 75	23	37 85	23	37 20	23	35 45	23	34 12	23	32 70	23	32 05	23	32 05	23
April,	38 91	24	38 80	24	38 35	24	38 70	24	38 00	24	37 60	24	35 80	24	32 40	24	31 60	24	31 46	24
May,	25 00	19	25 00	19	25 00	19	24 10	19	24 10	19	23 80	19	23 10	19	23 00	19	22 66	19	22 85	19
June,	26 00	21	25 12	21	21 16	21	24 10	21	23 80	21	23 20	21	23 00	21	22 10	21	22 05	21	21 95	21
July,	32 50	20	32 30	20	32 00	20	31 00	20	31 30	20	31 90	20	31 60	20	30 00	20	29 10	20	28 30	20
August,	26 30	14	24 00	14	23 00	14	22 10	14	22 00	14	21 95	14	21 40	14	21 10	14	20 80	14	20 00	14
September,	26 00	21	25 70	21	25 90	21	25 40	21	24 80	21	23 35	21	22 85	21	22 35	21	22 15	21	22 10	21
October,	31 60	23	31 20	23	30 85	23	30 17	23	30 07	23	30 00	23	29 60	23	29 10	23	29 00	23	28 95	23
November,	34 50	24	33 10	24	31 90	24	31 16	24	30 18	24	30 00	24	29 40	24	29 10	24	28 95	24	28 70	24
December,	30 15	21	30 00	21	29 80	21	29 10	21	29 00	21	28 60	21	28 20	21	27 90	21	27 55	21	27 14	21
Total,	\$578 31	249	\$370 07	249	\$365 21	249	\$358 48	249	\$352 37	249	\$346 64	249	\$338 27	249	\$327 35	249	\$321 40	249	\$317 98	249

No. 40 —NUMBER OF DAYS IN OPERATION DURING THE YEAR, 272.
Highest Individual Earnings.

	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
January,	\$59 90	25	\$56 40	25	\$55 85	25	\$55 20	25	\$54 90	25	\$52 75	25	\$51 90	25	\$50 60	25	\$48 97	25	\$47 25	25
February,	52 10	23	52 00	23	51 69	23	51 60	23	50 00	23	49 90	23	49 72	23	48 20	23	47 90	23	46 15	23
March,	51 97	23	50 00	23	49 10	23	48 15	23	47 01	23	46 30	23	45 90	23	45 00	23	45 00	23	41 90	23
April,	54 32	24	53 80	24	53 44	24	52 60	24	49 77	24	47 47	24	47 43	24	45 10	24	41 20	24	41 14	24
May,	53 93	22	57 72	22	56 22	22	56 20	22	52 60	22	52 00	22	51 85	22	49 60	22	48 40	22	45 00	22
June,	49 60	21	49 35	21	47 60	21	47 14	21	46 84	21	43 87	21	42 67	21	41 40	21	40 00	21	40 00	21
July,	51 20	23	50 85	23	49 56	23	47 92	23	47 65	23	47 60	23	46 20	23	46 20	23	45 09	23	43 90	23
August,	52 00	22	51 00	22	49 51	22	48 18	22	48 00	22	48 00	22	48 00	22	47 83	22	47 54	22	46 91	22
September,	37 00	20	38 00	20	36 70	20	35 60	20	34 87	20	34 37	20	33 90	20	33 50	20	33 42	20	33 10	20
October,	47 00	23	46 85	23	45 27	23	44 20	23	42 80	23	40 90	23	39 80	23	39 15	23	38 95	23	38 60	23
November,	54 06	25	53 10	25	52 00	25	51 67	25	49 90	25	49 16	25	48 12	25	48 00	25	47 40	25	46 85	25
December,	49 75	21	49 22	21	49 10	21	48 15	21	47 17	21	46 00	21	45 60	21	43 18	21	42 60	21	41 07	21
Total,	\$314 82	272	\$698 29	272	\$396 03	272	\$386 21	272	\$571 50	272	\$558 32	272	\$551 09	272	\$538 78	272	\$529 47	272	\$517 90	272

Lowest Individual Earnings.

	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
January,	\$34 20	25	\$33 96	25	\$33 10	25	\$32 65	25	\$32 00	25	\$31 81	25	\$30 70	25	\$30 45	25	\$30 01	25	\$28 95	25
February,	32 15	23	31 94	23	31 20	23	30 85	23	30 55	23	30 00	23	29 85	23	28 90	23	28 50	23	27 70	23
March,	32 10	23	30 95	23	30 50	23	30 10	23	30 00	23	29 00	23	29 00	23	29 95	23	28 95	23	28 60	23
April,	33 27	24	33 27	24	32 97	24	38 00	24	32 95	24	31 90	24	30 90	24	30 89	24	30 00	24	29 00	24
May,	33 82	22	29 60	22	28 90	22	28 00	22	27 87	22	27 80	22	27 50	22	27 47	22	26 60	22	26 10	22
June,	34 75	21	31 00	21	33 00	21	29 00	21	29 00	21	28 00	21	28 87	21	27 84	21	27 77	21	25 00	21
July,	32 28	23	32 27	23	32 00	23	32 00	23	31 97	23	31 60	23	31 57	23	31 50	23	31 40	23	30 00	23
August,	31 10	22	30 00	22	30 00	22	29 90	22	29 91	22	29 81	22	29 84	22	28 90	22	28 00	22	27 60	22
September,	23 15	20	22 10	20	21 30	20	20 25	20	19 80	20	19 60	20	19 21	20	19 00	20	18 90	20	18 85	20
October,	31 32	23	31 10	23	30 30	23	30 10	23	30 00	23	29 00	23	29 00	23	29 00	23	28 15	23	27 40	23
November,	32 61	25	32 15	25	31 87	25	31 14	25	30 25	25	30 00	25	29 97	25	29 72	25	29 40	25	29 12	25
Déceber,	31 11	21	30 85	21	30 17	21	29 90	21	29 50	21	29 20	21	29 16	21	29 00	21	29 00	21	28 41	21
Total,	\$381 86	272	\$372 19	272	\$335 31	272	\$356 82	272	\$353 83	272	\$347 78	272	\$345 49	272	\$342 52	272	\$336 67	272	\$326 73	272

No. 41.—NUMBER OF DAYS IN OPERATION DURING THE YEAR, 250.
Highest Individual Earnings.

1888.	1ST MAN.		2D MAN.		3D MAN		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
January..	\$ 0 00	24	\$60 00	21	\$ 0 00	21	\$ 0 00	21	\$58 20	24	\$58 00	24	\$55 20	24	\$51 10	24	\$53 30	24	\$52 55	24
February,	49 35	18	47 82	18	46 00	18	43 90	18	45 70	18	44 45	18	41 40	18	43 70	18	43 30	18	42 70	18
March,	50 79	22	49 70	22	51 67	22	53 00	22	53 85	22	55 60	22	49 56	22	49 52	22	53 35	22	51 52	22
April,	51 67	23	54 00	23	58 27	23	52 20	23	57 52	23	53 81	23	52 44	23	54 00	23	51 92	23	56 69	23
May,	49 14	21	48 77	21	63 12	21	54 39	21	60 00	21	48 90	21	51 15	21	57 60	21	50 26	21	62 12	21
June,	45 88	23	44 41	23	43 49	23	45 69	23	51 20	23	44 80	23	44 50	23	52 80	23	50 18	23	52 00	23
July,	49 57	20	53 74	20	49 47	20	49 37	20	57 79	20	53 72	20	52 25	20	53 00	20	51 65	20	53 42	20
August,	45 67	22	45 22	22	45 82	22	44 72	22	47 57	22	47 75	22	49 52	22	46 97	22	46 30	22	46 00	22
September,	31 72	14	31 30	14	29 25	14	31 15	14	29 87	14	29 85	14	28 01	14	28 30	14	28 22	14	27 49	14
October,	45 95	17	45 60	17	46 10	17	46 02	17	41 85	17	44 77	17	46 20	17	42 00	17	45 90	17	41 16	17
November,	50 10	25	49 60	25	48 40	25	46 10	25	46 05	25	40 10	25	41 08	25	46 00	25	43 15	25	41 80	25
December,	50 00	21	48 20	21	45 11	21	44 40	21	43 86	21	41 10	21	43 70	21	40 00	21	41 85	21	41 07	21
Total,	\$579 84	250	\$578 36	250	\$589 70	250	\$571 94	250	\$594 46	250	\$562 88	250	\$561 04	250	\$572 93	250	\$565 38	250	\$571 92	250

Lowest Individual Earnings.

January,	\$44 00	24	\$43 00	24	\$42 80	24	\$42 00	24	\$41 90	24	\$40 60	24	\$40 12	24	\$40 00	24	\$40 01	24	\$39 40	24
February,	38 60	18	33 40	18	32 65	18	32 25	18	31 25	18	31 02	18	30 15	18	29 45	18	28 47	18	28 40	18
March,	39 75	22	31 87	22	35 47	22	38 00	22	31 80	22	29 40	22	27 80	22	28 20	22	29 10	22	29 10	22
April,	32 45	23	28 90	23	39 16	23	35 82	23	40 00	23	41 07	23	39 79	23	40 65	23	34 96	23	41 00	23
May,	32 15	21	28 51	21	33 37	21	38 39	21	33 49	21	39 17	21	40 40	21	35 60	21	37 80	21	33 00	21
June,	35 35	23	36 00	23	33 42	23	34 00	23	33 90	23	29 90	23	30 60	23	31 45	23	32 80	23	32 75	23
July,	32 80	20	33 00	20	31 00	20	32 00	20	32 35	20	29 07	20	33 97	20	32 70	20	33 90	20	40 00	20
August,	35 80	22	27 80	22	29 45	22	27 75	22	30 22	22	32 11	22	30 00	22	29 40	22	28 70	22	40 00	22
September,	22 00	14	21 60	14	21 57	14	20 80	14	20 00	14	19 35	14	19 00	14	18 70	14	18 24	14	18 00	14
October,	31 60	17	31 10	17	30 97	17	30 00	17	30 15	17	29 89	17	30 04	17	30 88	17	30 11	17	29 67	17
November,	32 70	25	31 90	25	30 40	25	30 10	25	29 75	25	30 15	25	29 00	25	30 05	25	28 85	25	29 50	25
December,	29 78	21	29 40	21	30 60	21	28 52	21	28 60	21	29 10	21	30 00	21	27 40	21	29 15	21	28 70	21
Total,	\$401 98	250	\$376 48	250	\$395 86	250	\$390 63	250	\$383 41	250	\$380 83	250	\$380 87	250	\$34 48	250	\$377 93	250	\$381 52	250

No. 42—NUMBER OF DAYS IN OPERATION DURING THE YEAR, 264.
Highest Individual Earnings.

1888.	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
January,	\$52 10	25	\$51 95	25	\$51 10	25	\$50 15	25	\$49 00	25	\$48 20	25	\$47 10	25	\$46 50	25	\$45 00	25	\$44 20	25
February,	46 90	17	45 70	17	45 00	17	43 87	17	43 10	17	42 05	17	41 62	17	41 05	17	40 14	17	40 00	17
March,	43 47	23	42 47	23	42 44	23	41 00	23	40 78	23	40 05	23	39 90	23	39 90	23	39 50	23	39 25	23
April,	49 20	23	48 90	23	48 20	23	47 60	23	47 05	23	46 15	23	46 10	23	45 15	23	45 10	23	44 70	23
May,	46 50	22	46 50	22	46 30	22	46 20	22	46 00	22	46 00	22	41 00	22	41 25	22	43 80	22	42 75	22
June,	52 00	22	52 00	22	50 90	22	50 10	22	47 20	22	46 85	22	44 00	22	44 10	22	43 70	22	42 95	22
July,	57 21	23	51 18	23	54 00	23	52 65	23	52 60	23	52 64	23	51 75	23	51 00	23	51 73	23	50 26	23
August,	43 00	22	47 10	22	46 35	22	46 10	22	44 80	22	44 30	22	43 90	22	42 78	22	42 78	22	42 15	22
September,	47 60	19	47 40	19	47 25	19	47 00	19	46 01	19	41 77	19	41 74	19	43 65	19	43 60	19	42 78	19
October,	55 16	21	51 60	24	53 91	24	51 09	24	48 70	24	48 67	24	47 25	24	47 00	24	46 30	24	46 30	24
November,	49 90	22	48 78	22	48 21	22	47 62	22	46 95	22	46 22	22	45 81	22	46 00	22	45 10	22	45 04	22
December,	51 10	22	49 60	22	48 30	22	47 97	22	47 14	22	47 10	22	46 85	22	46 09	22	45 70	22	45 00	22
Total,	\$599 14	264	\$589 18	264	\$581 96	264	\$571 26	264	\$559 33	264	\$553 50	264	\$543 05	264	\$538 47	264	\$532 45	264	\$525 38	264

Lowest Individual Earnings.

1888.	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
January,	\$35 40	25	\$34 95	25	\$34 00	25	\$33 60	25	\$33 15	25	\$32 00	25	\$31 16	25	\$30 00	25	\$29 50	25	\$29 00	25
February,	29 00	17	29 00	17	28 70	17	28 41	17	27 37	17	26 80	17	26 10	17	24 01	17	23 08	17	21 96	17
March,	30 94	23	29 97	23	29 75	23	29 90	23	29 90	23	29 45	23	29 00	23	28 00	23	27 00	23	27 00	23
April,	34 11	23	34 10	23	33 75	23	32 80	23	32 14	23	31 72	23	31 15	23	30 07	23	30 04	23	29 93	23
May,	31 00	22	31 00	22	30 97	22	30 90	22	30 30	22	30 17	22	29 82	22	29 00	22	29 00	22	28 47	22
June,	30 17	22	30 00	22	29 50	22	29 50	22	29 38	22	27 97	22	27 95	22	26 10	22	26 00	22	25 71	22
July,	31 30	23	34 25	23	34 00	23	32 95	23	32 95	23	32 10	23	32 00	23	31 50	23	31 00	23	29 81	23
August,	34 60	22	33 00	22	32 00	22	31 40	22	31 10	22	30 94	22	30 85	22	30 00	22	29 90	22	29 45	22
September,	29 15	19	26 80	19	26 50	19	26 00	19	26 00	19	25 70	19	24 00	19	23 50	19	21 90	19	21 10	19
October,	32 61	24	31 11	24	30 19	24	28 87	24	27 37	24	27 00	24	26 80	24	27 70	24	30 00	24	30 09	24
November,	31 16	22	31 05	22	30 86	22	29 25	22	28 91	22	28 74	22	27 90	22	26 14	22	25 70	22	24 11	22
December,	30 18	22	30 07	22	29 16	22	29 10	22	28 70	22	27 40	22	29 16	22	27 11	22	27 20	22	26 11	22
Total,	\$832 02	264	\$775 30	264	\$769 55	264	\$762 68	264	\$757 27	264	\$749 99	264	\$745 89	264	\$733 13	264	\$730 32	264	\$722 79	264

No. 43.—NUMBER OF DAYS IN OPERATION DURING THE YEAR, 245.
Highest Individual Earnings.

	1ST MAN.		2D MAN.		3D MAN		4TH MAN.		5TH MAN.		6TH MAN		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
1888.																				
January,	\$61 00	25	\$63 81	25	\$63 00	25	\$62 15	25	\$61 04	25	\$60 20	25	\$60 00	25	\$58 95	25	\$58 40	25	\$57 70	25
February, . . . . .	..	14	..	14	..	14	..	..	..	..	..	..	..	14	..	..	..	..	..	14
March,	63 61	22	62 49	22	61 72	22	56 90	22	56 60	22	55 30	22	55 15	22	54 50	22	54 05	22	51 00	22
April,	62 80	25	61 00	25	56 27	25	55 25	25	54 70	25	53 90	25	53 50	25	53 50	25	51 07	25	50 35	25
May,	42 37	18	41 67	18	41 32	18	39 42	18	37 75	18	37 45	18	37 24	18	36 00	18	35 29	18	31 60	18
June,	55 94	24	55 10	24	51 82	24	54 50	24	51 42	24	53 71	24	52 50	24	52 30	24	49 35	24	49 35	24
July,	60 00	22	58 67	22	58 00	22	57 24	22	56 95	22	52 35	22	51 35	22	51 52	22	50 67	22	50 00	22
August,	41 00	13	40 00	13	39 90	13	39 99	13	39 70	13	39 00	13	38 60	13	38 20	13	38 00	13	37 80	13
September,	40 60	14	40 40	14	39 67	14	38 57	14	36 05	14	35 90	14	35 60	14	34 40	14	33 80	14	31 70	14
October,	54 00	23	53 40	23	52 83	23	51 05	23	50 00	23	49 50	23	48 70	23	48 67	23	47 82	23	47 37	23
November,	61 00	25	59 45	25	58 20	25	54 10	25	51 00	25	53 15	25	51 60	25	50 15	25	49 90	25	49 90	25
December,	56 00	20	51 00	20	50 25	20	47 20	20	47 00	20	46 70	20	45 00	20	45 40	20	44 10	20	43 00	20
Total,	\$601 35	245	\$587 29	245	\$576 00	245	\$556 23	245	\$518 21	245	\$537 17	245	\$530 21	245	\$523 59	245	\$514 00	245	\$502 77	245

Lowest Individual Earnings.

January,	\$41 10	25	\$40 05	25	\$39 75	25	\$39 15	25	\$38 62	25	\$38 04	25	\$37 67	25	\$37 00	25	\$34 10	25	\$33 65	25
February, . . . . .	..	14	..	14	..	14	..	..	..	..	..	..	..	14	..	..	..	..	..	14
March,	43 00	22	39 70	22	39 75	22	36 50	22	36 40	22	35 00	22	34 90	22	34 55	22	27 95	22	27 05	22
April,	40 00	25	36 50	25	34 20	25	32 10	25	32 00	25	31 10	25	31 00	25	29 90	25	29 00	25	27 65	25
May,	30 20	18	30 00	18	29 80	18	29 60	18	29 54	18	28 80	18	27 09	18	26 20	18	26 00	18	25 40	18
June,	36 90	24	36 45	24	36 20	24	35 80	24	35 75	24	31 50	24	31 12	24	30 90	24	32 60	24	32 10	24
July,	40 00	22	37 00	22	36 60	22	35 47	22	34 85	22	33 50	22	32 10	22	30 90	22	29 60	22	29 00	22
August,	28 32	13	26 00	13	25 00	13	24 80	13	24 59	13	24 10	13	23 00	13	22 00	13	21 10	13	20 90	13
September,	23 15	14	23 00	14	22 87	14	22 77	14	21 17	14	19 88	14	19 60	14	20 00	14	19 10	14	18 55	14
October,	40 00	23	38 27	23	33 95	23	33 32	23	33 00	23	32 70	23	31 00	23	27 80	23	26 90	23	24 60	23
November,	33 15	25	36 05	25	36 00	25	34 12	25	34 10	25	32 14	25	31 95	25	31 87	25	31 20	25	30 09	25
December,	34 00	20	32 69	20	32 00	20	31 10	20	30 00	20	27 05	20	26 40	20	24 80	20	24 37	20	24 00	20
Total,	\$394 82	245	\$375 71	245	\$365 12	245	\$354 73	245	\$330 93	245	1336 81	245	\$328 83	245	\$317 12	245	\$301 92	245	\$292 99	245

No. 44.—NUMBER OF DAYS IN OPERATION DURING THE YEAR, ——. Highest Individual Earnings.

	1ST MAN.		2D MAN.		3 MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
1888.																				
January,	\$60 00	22	\$66 60	24	\$50 00	20	\$45 00	24	\$56 00	24	\$48 00	23	\$41 00	20	\$40 00	17	\$43 00	23	\$50 00	24
February,	40 00	15	42 00	16	22 00	9	40 00	15	28 00	16	30 00	16	36 00	17	35 00	19	36 00	16	42 00	20
March—Strike.																				
April,	57 00	17	39 00	13	60 00	18	50 00	19	55 50	18	58 00	19	32 00	11	33 00	18	44 00	19	44 00	19
May,	48 50	25	77 00	25	40 00	25	49 00	24	60 00	24	55 00	25	65 00	25	28 00	14	54 00	25	50 00	24
June,	30 00	14	26 61	13	23 00	13	24 00	14	22 00	14	22 00	11	24 00	13	30 00	14	24 00	11	25 00	14
July,	20 00	11	24 00	11	24 00	11	18 00	11	17 50	10	18 00	12	18 00	11	16 00	11	19 00	12	18 00	11
August,	19 24	11	22 00	11	20 00	11	16 00	10	18 00	11	16 00	11	17 00	11	11 00	10	17 00	12	17 00	12
September,	51 61	15	37 00	15	36 00	14	27 00	13	31 00	15	25 00	11	30 00	14	30 00	14	24 00	14	21 00	13
October,	50 50	21	43 00	21	26 00	13	36 00	20	44 00	21	42 00	20	44 00	21	40 00	25	30 00	23	38 00	22
November,	50 50	18	40 00	16	50 00	18	38 00	19	40 00	18	44 00	18	42 00	17	33 00	18	40 00	15	40 00	16
December,	50 00	18	37 50	15	45 00	16	43 00	20	42 00	18	32 00	17	33 00	17	38 00	18	33 00	17	35 00	17
Total.	\$477 38	187	\$454 74	180	\$396 00	148	\$386 00	189	\$414 00	189	\$390 00	186	\$331 00	177	\$342 00	177	\$313 00	190	\$353 00	192

Lowest Individual Earnings.

	1ST MAN.		2D MAN.		3 MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
January,	\$31 00	21	\$33 00	20	\$34 00	21	\$39 00	22	\$40 00	22	\$33 00	14	\$40 00	22	\$39 00	22	\$30 00	19	\$40 00	23
February,	30 00	16	31 00	17	30 00	16	30 00	16	35 00	19	25 00	15	35 00	18	31 00	17	20 00	16	30 00	17
March—Strike.																				
April,	43 00	19	47 00	16	48 00	19	40 00	15	28 00	18	30 00	14	30 00	14	40 00	19	48 00	19	48 50	18
May,	51 00	24	51 00	24	50 00	23	50 00	25	28 00	14	28 00	13	50 00	24	48 00	21	51 00	24	50 00	25
June,	22 00	12	21 00	11	22 00	12	22 00	13	30 00	14	31 00	15	31 00	15	32 00	16	22 00	12	24 00	14
July,	16 00	11	17 00	12	16 00	11	17 00	12	16 00	11	16 00	10	17 00	12	22 00	13	16 00	11	19 00	12
August,	10 00	8	10 00	8	11 00	9	14 00	10	10 00	8	11 00	9	14 00	10	11 00	9	10 00	8	16 00	11
September,	30 00	14	32 00	13	30 00	14	30 00	15	19 00	10	18 00	13	30 00	15	14 00	11	30 00	11	25 00	15
October,	40 00	25	38 00	24	40 00	24	38 00	24	28 00	14	22 00	16	38 00	24	35 00	15	40 00	25	38 00	22
November,	38 00	18	39 00	19	37 00	17	39 00	19	39 00	19	29 00	17	29 00	17	38 00	19	30 00	16	40 00	16
December,	33 00	19	32 00	18	34 00	20	33 00	18	40 00	25	35 00	17	38 00	18	40 00	25	40 00	25	32 00	17
Total.	\$552 00	187	\$51 00	182	\$552 00	186	\$552 00	189	\$421 00	174	\$478 00	153	\$552 00	189	\$353 00	189	\$356 00	189	\$332 50	190

No. 45 —NUMBER OF DAYS IN OPERATION DURING THE YEAR, 278.
Highest Individual Earnings.

1888.	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
January,	\$43 00	26	\$43 00	26	\$40 00	26	\$39 00	26	\$30 00	23	\$37 00	23	\$44 00	26	\$44 00	26	\$42 00	26	\$42 00	23
February,	21 00	13	21 00	13	16 00	12	15 00	12	20 00	12	20 00	12	23 00	13	23 00	13	20 00	13	19 00	13
March,	46 00	24	46 00	24	49 00	25	49 00	25	37 00	22	37 00	22	47 00	25	47 00	25	41 00	25	40 00	25
April,	68 00	25	68 00	25	55 00	23	56 00	23	48 00	23	58 00	23	48 00	24	48 00	24	49 00	23	50 00	23
May,	57 00	22	57 00	22	59 00	23	59 00	23	52 00	20	52 00	20	62 00	23	63 00	23	42 00	24	43 00	24
June,	46 00	25	46 00	25	51 00	23	51 00	23	21 00	16	22 00	16	39 00	17	32 00	17	38 00	24	39 00	24
July,	38 00	23	38 00	23	39 00	21	40 00	21	31 00	22	26 00	22	37 00	21	35 00	21	40 00	23	41 00	23
August,	38 00	22	39 00	22	37 00	22	38 00	22	31 00	22	32 00	22	36 00	22	35 00	22	38 00	21	39 00	21
September,	35 00	22	35 00	22	25 00	21	26 00	21	34 00	22	35 00	22	31 00	22	32 00	22	26 00	22	27 00	22
October,	35 00	23	35 00	23	22 00	18	23 00	19	24 00	17	24 00	17	31 00	23	31 00	23	10 00	11	10 00	11
November,	31 00	22	32 00	22	32 00	22	33 00	22	32 00	22	32 00	22	34 00	24	35 00	24	30 00	24	31 00	24
December,	36 00	23	36 00	23	39 00	24	40 00	24	40 00	24	40 00	24	39 00	24	39 00	24	39 00	24	41 00	24
Total,	\$494 00	270	\$486 00	270	\$464 00	260	\$483 00	261	\$400 00	245	\$415 00	245	\$471 00	264	\$464 00	264	\$415 00	260	\$422 00	260

Lowest Individual Earnings.

1888.	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
January,	\$42 00	26	\$40 00	26	\$26 00	25	\$27 00	22	\$30 00	22	\$29 00	22	\$28 00	22	\$27 00	22	\$27 00	23	\$26 00	22
February,	16 00	13	15 00	12	14 00	12	14 00	12	15 00	13	14 00	12	16 00	13	16 00	13	15 00	12	16 00	13
March,	38 00	22	37 00	23	35 00	23	35 00	23	27 00	22	27 00	22	28 00	22	28 00	22	24 00	20	24 00	20
April,	43 00	24	42 00	23	27 00	23	28 00	23	24 00	20	24 00	20	26 00	22	26 00	22	25 00	21	25 00	21
May,	38 00	23	37 00	24	39 00	24	34 00	24	26 00	21	26 00	21	28 00	23	28 00	23	27 00	21	26 00	21
June,	34 00	20	35 00	20	33 00	21	29 00	20	26 00	21	25 00	21	30 00	23	30 00	23	26 00	22	25 00	22
July,	3 00	5	4 00	5	18 00	15	21 00	16	30 00	23	29 00	23	26 00	22	27 00	22	23 00	23	28 00	23
August,	29 00	21	30 00	21	32 00	25	31 00	25	30 00	24	29 00	24	28 00	23	28 00	23	26 00	22	25 00	22
September,	8 00	7	8 00	7	26 00	21	25 00	21	27 00	21	27 00	21	25 00	22	26 00	22	26 00	22	25 00	22
October,	14 00	12	13 00	12	24 00	20	25 00	20	25 00	21	26 00	21	24 00	21	25 00	21	24 00	20	24 00	20
November,	21 00	16	20 00	16	29 00	22	27 00	22	26 00	21	26 00	21	27 00	23	27 00	23	25 00	21	25 00	21
December,	35 00	23	33 00	23	34 00	22	32 00	22	24 00	20	25 00	20	30 00	23	29 00	23	25 00	21	26 00	21
Total,	\$821 00	212	\$815 00	212	337 0	253	\$828 00	250	\$810 00	249	\$87 00	248	\$316 00	259	\$317 00	259	\$299 00	248	\$297 00	243

No. 46.—NUMBER OF DAYS IN OPERATION DURING THE YEAR, 246.
Highest Individual Earnings.

1888.	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
January,	\$69 85	23	\$60 75	23	\$67 20	23	\$58 65	23	\$58 35	23	\$58 65	23	\$58 65	23	\$58 65	23	\$65 95	23	\$55 20	23
February,	67 40	22	58 60	22	64 80	22	56 50	22	57 45	22	56 50	22	56 50	22	56 50	22	63 87	22	53 72	22
March,	63 25	19	46 97	19	44 20	19	47 85	19	40 45	19	47 85	19	43 67	19	43 67	19	43 68	19	44 45	19
April,	58 15	15	47 50	15	71 30	15	51 00	15	71 30	15	51 00	15	51 00	15	51 00	15	51 00	15	51 00	15
May,	48 80	13	43 75	13	49 70	13	49 70	13	49 70	13	49 70	13	49 70	13	44 87	13	44 87	13	44 87	13
June,	54 35	18	53 90	18	56 25	18	52 30	18	52 80	18	52 30	18	52 30	18	53 90	18	53 90	18	53 90	18
July,	59 10	18	53 25	18	53 15	18	61 25	18	61 25	18	61 25	18	61 25	18	50 35	18	58 05	18	53 05	18
August,	65 55	20	54 25	20	54 70	20	54 25	20	56 20	20	61 15	20	61 15	20	61 15	20	62 70	20	62 15	20
September,	53 60	18	52 05	18	59 23	18	52 00	18	60 00	18	54 60	18	54 60	18	54 60	18	54 15	18	54 15	18
October,	63 15	25	56 35	25	65 70	25	56 35	25	73 15	25	73 15	25	73 15	25	78 45	25	81 25	25	81 25	25
November,	63 75	25	56 55	25	69 55	25	55 82	25	69 55	25	52 30	25	51 20	25	56 55	25	54 95	25	54 95	25
December,	67 90	25	60 60	25	70 60	25	60 60	25	70 60	25	70 60	25	70 65	25	66 70	25	58 70	25	56 20	25
Total,	\$739 85	241	\$644 52	241	\$726 38	241	\$641 68	241	\$707 53	241	\$691 00	241	\$691 00	241	\$676 39	241	\$692 57	241	\$664 89	241

Lowest Individual Earnings.

January,	\$42 20	23	\$45 45	23	\$44 75	23	\$43 35	23	\$42 80	23	\$43 35	23	\$45 65	23	\$41 95	23	\$40 38	23
February,	40 30	22	42 67	22	42 38	22	41 58	22	42 38	22	41 58	22	43 63	22	41 86	22	40 63	22
March,	24 30	19	32 80	19	30 40	19	38 25	19	37 85	19	38 25	19	39 95	19	29 25	19	39 15	19
April,	28 30	15	29 75	15	29 75	15	28 75	15	32 25	15	28 75	15	30 00	15	27 90	15	27 90	15
May,	24 30	13	26 05	13	26 45	13	23 65	13	26 35	13	23 65	13	23 65	13	24 50	13	23 70	13
June,	37 65	18	37 70	18	36 50	18	36 40	18	34 50	18	36 40	18	36 75	18	34 30	18	34 30	18
July,	38 80	18	35 35	18	35 35	18	31 40	18	35 13	18	31 40	18	32 10	18	32 25	18	36 10	18
August,	37 50	20	40 10	20	37 30	20	42 85	20	42 85	20	42 85	20	43 90	20	38 00	20	36 35	20
September,	36 55	18	32 90	18	35 75	18	33 00	18	33 25	18	33 00	18	39 50	18	31 50	18	32 65	18
October,	45 05	25	45 05	25	45 05	25	46 10	25	47 00	25	46 10	25	48 10	25	48 10	25	48 85	25
November,	42 00	25	43 37	25	46 88	25	46 67	25	46 88	25	46 67	25	44 50	25	41 50	25	47 45	25
December,	45 80	25	41 85	25	45 00	25	45 18	25	44 50	25	45 18	25	48 95	25	48 95	25	41 35	25
Total,	\$442 75	241	\$456 10	241	\$455 31	241	\$457 18	241	\$467 34	241	\$457 18	241	\$477 28	241	\$441 06	241	\$451 81	241

No. 47.—NUMBER OF DAYS IN OPERATION DURING THE YEAR, 220.
Highest Individual Earnings.

1888.	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
January,	\$70 00	28	\$50 00	25	\$49 00	24	\$52 00	26	\$69 74	31	\$63 00	23	\$60 74	27	\$60 74	27	\$63 00	23	\$58 50	26
February,	56 24	25	56 24	25	58 50	26	56 24	25	60 74	27	50 00	25	46 00	23	42 00	21	48 00	24	44 00	22
March,	75 00	30	56 00	25	49 50	22	49 50	22	51 74	23	54 00	24	41 00	20 ¹ / ₂	38 00	22	32 00	20	52 00	26
April,	60 00	24	58 50	26	67 50	30	75 00	30	75 00	30	50 00	25	50 00	25	48 00	24	48 00	24	52 00	26
May,	67 50	30	63 00	28	53 50	26	50 00	20	75 00	30	48 00	24	44 00	22	40 00	20	42 00	21 ¹ / ₂	50 00	25
June,	63 00	28	63 00	28	53 50	26	63 00	28	62 50	27	60 00	30	53 00	26 ¹ / ₂	77 50	31	46 00	23	48 00	24
July,	72 00	32	51 74	23	65 24	29	65 24	29	62 50	25	54 00	24	58 50	26	48 00	24	45 00	20	44 00	22
August,	67 50	30	49 50	22	65 24	29	63 00	28	67 50	30	65 24	29	44 00	22	70 00	28	67 50	30	44 00	22
September,	58 50	26	56 24	25	60 74	27	58 50	26	58 50	26	58 50	26	54 00	27	52 00	26	52 00	26	52 00	26
October,	70 00	28	56 00	23	50 00	25	52 00	26	54 00	27	60 74	27	60 74	27	58 50	26	48 00	24	52 00	23
November,	59 00	22	32 00	16	54 00	24	49 50	22	45 00	20	49 50	22	42 00	21	38 00	19	36 00	18	42 00	21
December,	69 00	24	44 00	22	53 50	26	58 50	13	49 50	22	60 00	30	50 00	25	52 00	26	53 00	26 ¹ / ₂	54 00	27
Total,	\$783 74	327	\$636 22	293	\$694 22	314	\$692 48	295	\$736 72	313	\$672 98	314	\$603 98	292	\$624 74	294	\$380 50	285	\$592 50	293

Lowest Individual Earnings.

January,	\$5 60	8	\$10 64	8	\$7 00	7	\$10 00	8	\$14 00	8	\$20 00	10	\$12 00	8	\$14 00	10	\$16 50	10	\$39 00	30
February,	4 90	7	7 98	6	6 00	6	11 25	7	12 25	7	22 00	11	15 00	10	16 50	12	21 45	13	39 00	30
March,	3 15	9	13 30	10	10 00	10	7 50	6	21 00	12	18 00	9	10 50	7	14 00	10	16 50	10	39 00	30
April,	8 40	12	17 29	13	8 00	8	10 00	8	19 25	11	28 00	14	16 50	11	18 20	13	21 45	13	39 00	30
May,	6 30	9	18 62	14	12 00	12	17 50	14	22 75	13	28 00	14	21 00	14	18 20	13	31 35	19	39 00	30
June,	10 50	15	21 28	16	17 00	17	22 50	18	33 25	19	40 00	20	27 00	18	26 60	19	34 65	21	39 00	30
July,	9 80	14	15 96	12	18 00	18	21 25	17	31 50	18	44 00	22	30 00	20	25 20	18	36 30	22	39 00	30
August,	9 10	13	14 63	11	16 00	16	23 75	19	29 75	17	46 00	23	28 50	19	28 00	20	31 35	19	39 00	30
September,	7 00	10	13 33	10	14 00	14	18 75	15	24 50	14	38 00	19	22 50	15	19 60	14	33 00	23	39 00	30
October,	6 30	9	10 64	8	12 00	12	20 00	16	26 25	15	46 00	23	30 00	20	18 20	13	31 35	19	39 00	30
November,	4 20	6	5 32	4	9 00	9	8 75	7	14 00	8	18 00	9	24 00	16	15 40	11	26 40	16	39 00	30
December,	4 80	7	7 98	6	8 00	8	11 25	9	17 50	10	18 00	9	15 00	10	12 60	9	19 80	12	39 00	30
Total,	\$80 15	119	\$156 97	118	\$137 00	137	\$182 50	146	\$236 00	152	\$366 00	183	\$252 00	168	\$226 80	162	\$320 10	194	\$468 00	360

No. 48.—NUMBER OF DAYS IN OPERATION DURING THE YEAR, 1866.
Highest Individual Earnings.

	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
1866.																				
January,	\$60 00	22	\$60 00	22	\$60 00	22	\$48 00	22	\$48 00	22	\$35 00	22	\$33 00	22	\$34 00	23	\$32 00	21	\$30 00	20
February,	35 00	10	36 00	14	39 00	15	39 00	15	38 00	14	38 00	14	32 00	14	30 00	13	40 00	15	27 00	12
March—Strike.																				
April—Strike.																				
May,	35 00	11	35 00	11	35 00	11	32 00	9	32 00	9	30 00	10	32 00	9	32 00	9	26 00	9	27 00	11
June,	36 00	13	35 00	13	25 00	13	25 00	13	24 00	13	24 00	13	27 00	13	22 00	11	21 00	11	20 00	12
July,	30 00	13	32 00	13	31 00	13	23 00	12	23 00	12	25 00	13	27 00	13	25 00	13	21 00	12	21 00	12
August,	30 00	11	20 00	9	22 00	10	31 00	12	23 00	12	19 00	11	18 00	11	17 00	11	15 00	11	15 00	11
September,	46 00	14	34 00	13	31 00	13	37 00	14	36 00	11	25 00	14	25 00	14	25 00	14	25 00	14	24 00	14
October,	60 00	17	55 00	17	39 00	10	53 00	15	35 00	17	35 00	16	36 00	17	36 00	17	33 00	17	30 00	16
November,	53 00	17	48 00	13	39 00	28	37 00	17	37 00	18	37 00	18	39 00	18	36 00	18	34 00	16	35 00	18
December,	62 00	18	38 00	19	33 00	19	36 00	19	36 00	19	28 00	19	36 00	18	40 00	19	32 00	18	32 00	19
Total,	\$452 00	146	\$393 00	144	\$369 00	154	\$369 00	147	\$332 00	147	\$306 00	150	\$305 00	149	\$297 00	143	\$279 00	144	\$261 00	145

Lowest Individual Earnings.

January,	\$32 00	22	\$34 00	23	\$32 00	22	\$28 00	18	\$27 00	15	\$11 00	6	\$26 00	15	\$26 00	14	\$12 00	10	\$8 00	6
February,	26 00	13	25 00	13	25 00	14	25 00	14	22 00	13	20 00	11	20 00	11	16 00	12	11 00	8	5 00	3
March,	27 00	10	21 00	10	20 00	10	20 00	10	21 00	10	8 00	4	14 00	8	14 00	9	9 00	5	10 00	8
April—Strike.																				
May—Strike.																				
June,	19 00	12	18 00	12	19 00	13	19 00	13	18 00	12	17 00	11	16 00	12	16 00	12	14 00	8	10 00	7
July,	19 00	13	19 00	13	18 00	12	18 00	12	15 00	10	17 00	11	17 00	11	13 00	8	9 00	6	5 00	4
August,	13 00	10	13 00	10	9 00	6	13 00	7	16 00	8	10 00	8	14 00	11	14 00	11	15 00	8	14 00	10
September,	23 00	14	23 00	14	22 00	12	21 00	13	20 00	12	24 00	14	24 00	14	17 00	9	15 00	10	11 00	8
October,	30 00	16	32 00	17	32 00	17	29 00	17	29 00	17	23 00	15	26 00	15	22 00	13	12 00	6	12 00	7
November,	35 00	18	33 00	18	32 00	18	32 00	18	30 00	18	30 00	18	29 00	17	29 00	17	22 00	11	16 00	10
December,	25 00	17	25 00	14	25 00	17	24 00	16	19 00	12	19 00	12	17 00	10	18 00	12	13 00	8	8 00	7
Total,	\$250 00	145	\$243 00	144	\$232 00	149	\$229 00	138	\$211 00	127	\$184 00	110	\$199 00	124	\$191 00	117	\$132 00	80	\$99 00	70

No. 49.—NUMBER OF DAYS IN OPERATION DURING THE YEAR, 259 3-4.
Highest Individual Earnings.

	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
1888.																				
January,	\$83 80	25½	\$84 12	25½	\$60 80	25½	\$84 25	25½	\$74 40	25½	\$73 35	25½	\$84 12	25½	\$68 20	25½	\$128 32	25½	\$69 30	25½
February,	64 20	19½	57 27	19½	60 74	19½	48 77	19½	68 50	19½	54 18	19½	59 27	19½	64 09	19½	46 75	19½	66 20	19½
March,	62 04	25	68 35	25	72 20	25	62 10	25	120 25	25	58 18	25	76 75	25	70 52	25	87 18	25	105 50	25
April,	78 63	23½	54 25	23½	69 45	23½	61 57	23½	156 50	23½	70 54	23½	71 00	23½	61 65	23½	95 60	23½	91 30	23½
May,	98 67	20½	49 92	20½	56 00	20½	57 06	20½	120 70	20½	74 12	20½	50 72	20½	51 25	20½	76 73	20½	81 25	20½
June,	63 90	23	56 00	23	72 30	23	49 50	23	110 40	23	57 16	23	60 35	23	46 50	23	82 76	23	70 77	23
July,	62 70	23½	60 70	23½	83 70	23½	70 50	23½	130 20	23½	69 21	23½	70 40	23½	53 70	23½	59 55	23½	45 70	23½
August,	44 80	20	44 70	20	48 00	20	58 44	20	112 25	20	58 95	20	63 70	20	65 50	20	80 65	20	39 80	20
September,	14 00	10	11 20	10	24 45	10	30 00	10	30 80	10	26 47	10	25 20	10	26 80	10	39 75	10	20 40	10
October,	84 20	22	62 80	22	63 00	22	62 75	22	77 30	22	66 06	22	66 32	22	62 30	22	75 10	22	47 25	22
November,	72 10	23	69 65	23	42 90	23	26 91	23	62 97	23	40 97	23	60 20	23	64 90	23	81 12	23	68 10	23
December,	59 40	24	51 50	24	62 00	24	70 50	24	60 05	24	74 56	24	53 70	24	78 15	24	73 35	24	65 00	24
Total,	\$803 44	259½	\$670 36	259½	\$716 14	259½	\$710 35	259½	\$1,124 32	259½	\$723 75	259½	\$741 73	259½	\$713 47	259½	\$973 25	259½	\$770 57	259½

Lowest Individual Earnings.

	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
January,	\$55 67	23½	\$40 14	23½	\$31 70	23½	\$44 10	23½	\$61 05	23½	\$52 40	23½	\$57 45	23½	\$61 85	23½	\$64 90	23½	\$61 11	23½
February,	54 27	19½	23 01	19½	4 80	19½	34 40	19½	28 00	19½	60 10	19½	40 20	19½	38 00	19½	46 75	19½	47 75	19½
March,	61 56	25	10 40	25	62 08	25	56 80	25	62 50	25	55 76	25	55 90	25	71 57	25	50 39	25	45 55	25
April,	66 88	23½	48 00	23½	45 76	23½	67 20	23½	53 35	23½	50 00	23½	57 90	23½	66 10	23½	62 45	23½	58 15	23½
May,	58 60	20½	46 40	20½	44 76	20½	51 25	20½	54 40	20½	47 85	20½	34 55	20½	60 66	20½	44 70	20½	58 00	20½
June,	52 53	23	26 80	23	51 50	23	48 10	23	57 70	23	60 30	23	33 40	23	55 49	23	53 90	23	40 25	23
July,	50 00	23½	43 20	23½	22 40	23½	55 70	23½	56 20	23½	73 55	23½	48 05	23½	65 00	23½	67 75	23½	52 00	23½
August,	39 25	20	19 79	20	17 60	20	47 30	20	43 30	20	45 00	20	46 80	20	34 05	20	48 90	20	18 00	20
September,	27 85	10	17 07	10	16 55	10	20 85	10	27 65	10	19 45	10	8 65	10	33 60	10	27 70	10	18 40	10
October,	55 00	22	33 64	22	43 95	22	51 90	22	55 30	22	41 70	22	30 55	22	41 66	22	59 90	22	27 92	22
November,	60 85	23	37 63	23	34 65	23	46 85	23	60 80	23	52 07	23	31 75	23	15 75	23	32 60	23	50 03	23
December,	53 15	24	43 72	24	35 00	24	46 85	24	57 17	24	51 76	24	51 25	24	57 17	24	50 00	24	64 60	24
Total,	\$640 61	259½	\$384 80	259½	\$410 15	259½	\$571 10	259½	\$617 42	259½	\$612 94	259½	\$496 45	259½	\$600 69	259½	\$603 94	259½	\$537 76	259½

No. 50.—NUMBER OF DAYS IN OPERATION DURING THE YEAR, 147.
Highest Individual Earnings.

	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
1883.																				
January,	\$52 28	16	\$71 10	16	\$82 06	23	\$49 88	18	\$38 83	17	\$57 25	20	\$53 24	21	\$52 91	20	\$72 99	22	\$41 91	16
February, . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
March,	48 81	18	49 05	18	46 05	16	46 00	16	45 51	15	43 13	16	44 29	17	54 81	18	38 24	16	41 51	16
April,	33 28	11	33 59	13	43 92	16	43 92	16	30 85	14	31 48	12	28 91	12	39 91	16	44 86	15	27 47	10
May,	1 19	4	54	4	74	4	74	4	50	4	1 66	4	48	4	6 30	2	3 30	2	97	4
June,	5 27	2	6 08	2	2 78	1	1 59	7	7 30	3	5 88	2	5 77	8	4 42	2	12 07	5	5 70	2
July,	14 80	6	16 75	7	19 00	7	18 97	7	14 46	6	14 67	6	14 11	6	6 30	2	14 25	5	12 29	5
August,	16 02	6	19 56	5	12 88	5	23 02	6	13 30	5	12 64	5	13 65	6	52	4	21 48	6	12 94	5
September,	21 00	7	37 68	9	35 72	14	23 53	8	17 89	7	15 49	6	18 23	7	..	..	33 33	12	23 81	10
October,	66 97	24	92 25	25	63 65	21	60 03	20	52 39	22	60 40	23	61 75	23	50 55	20	77 52	23	48 50	19
November,	71 20	25	86 82	24	82 03	23	51 18	19	46 59	20	69 70	25	62 38	23	63 33	23	71 92	20	44 47	16
December,	55 21	20	70 31	20	76 45	20	47 38	18	11 77	4	53 73	20	51 64	20	55 39	20	64 82	20	41 66	16
Total,	\$385 98	1354	\$438 68	1304	\$465 28	1444	\$366 24	1284	\$279 39	1134	\$369 23	1354	\$354 45	138	\$334 44	1234	\$457 78	146	\$301 23	1154

Lowest Individual Earnings.

	21		23		13		18		19		17		17		17		103	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
January,	\$33 31	21	\$19 18	23	\$25 87	13	\$34 51	18	\$34 99	19	\$30 61	17	\$30 85	17	\$30 61	17	\$183 08	103
February, . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
March,	28 65	15	16 94	13	27 80	13	32 83	16	12 85	7	18 03	10	32 69	10	18 03	10	24 15	13
April,	23 98	10	22 00	10	19 23	9	25 69	14	18 07	10	20 70	10	21 05	10	17 47	10	38 27	22
May,	1 93	1	83	1	1 38	1	97	4	5 15	3	57	3	1 80	4	85	4	34 22	20
June,	8 71	4	2 77	1	5 29	2	60	4	1 77	2	6 44	3	..	..	..	..	..	..
July,	12 61	6	1 90	1	..	..	..	..	2 45	2	11 39	5	..	..	..	..	..	..
August,	13 11	5	5 73	2	..	..	..	..	9 51	5	11 77	5	..	..	..	..	..	..
September,	15 42	8	11 95	5	..	..	..	..	37 88	8	16 84	8	..	..	..	..	..	..
October,	44 33	23	45 25	20	..	..	..	..	31 36	19	41 70	20	..	..	..	..	..	..
November,	37 99	20	44 75	20	..	..	..	..	29 74	16	46 86	20	..	..	..	..	..	..
December,	32 33	20	33 32	19	..	..	..	..	28 90	16	44 03	19	..	..	..	..	..	..
Total,	\$252 37	133	\$234 62	1084	\$123 55	59	\$219 36	114	\$214 67	119	\$278 79	124	\$219 36	114	\$117 25	644	\$183 08	103

No. 51.—NUMBER OF DAYS IN OPERATION DURING THE YEAR, 307.
Highest Individual Earnings.

1888.	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
January,	\$65 00	26	\$65 00	26	\$65 00	26	\$65 00	26	\$64 00	26	\$64 00	26	\$62 00	26	\$62 00	26	\$60 00	26	\$59 00	26
February,	60 00	24	60 00	24	60 00	24	60 00	24	59 00	24	59 00	24	59 00	24	58 00	24	55 00	24	55 00	24
March,	64 50	27	61 00	27	62 00	27	61 00	27	59 00	27	59 00	27	58 00	27	58 00	27	57 00	27	56 00	27
April,	68 00	25	60 00	25	63 00	25	60 00	25	60 00	25	59 00	25	56 00	25	56 00	25	54 00	25	51 00	25
May,	66 00	26	66 00	26	66 00	26	65 00	26	64 00	26	64 00	26	60 00	26	59 00	26	59 00	26	56 00	26
June,	72 00	26	72 00	26	72 00	26	70 00	26	68 00	26	66 00	26	60 00	26	57 00	26	56 00	26	56 00	26
July,	81 00	26	78 00	25	70 00	26	68 00	26	66 00	26	66 00	26	63 00	26	66 00	26	58 00	26	58 00	26
August,	65 00	26	62 00	26	62 00	26	61 00	23	61 00	26	61 00	26	60 00	26	59 00	26	59 00	26	57 00	26
September,	74 00	25	72 00	25	71 00	25	66 00	26	65 00	25	65 00	25	60 00	25	58 00	25	58 00	25	56 00	25
October,	66 00	26	66 00	26	65 00	26	65 00	26	64 00	26	64 00	26	63 00	26	63 00	26	62 00	26	62 00	26
November,	67 00	25	67 00	25	66 00	25	66 00	25	66 00	25	63 00	25	63 00	25	59 00	25	59 00	25	56 00	25
December,	69 00	25	69 00	25	69 00	25	68 00	25	67 00	25	67 00	25	64 00	25	63 00	25	58 00	25	58 00	25
Total,	\$820 50	307	\$805 00	307	\$791 00	307	\$775 00	307	\$763 00	307	\$751 00	307	\$731 00	307	\$718 00	307	\$695 00	307	\$679 00	307

Lowest Individual Earnings.

January,	\$30 00	26	\$30 00	26	\$30 00	26	\$30 00	26	\$31 00	26	\$31 00	26	\$31 00	26	\$31 00	26	\$32 00	26	\$32 00	26
February,	28 00	24	28 00	24	29 00	24	29 00	24	30 00	24	30 00	24	30 00	24	30 00	24	30 00	24	30 00	24
March,	30 00	27	30 00	27	30 00	27	31 00	27	32 00	27	32 00	27	32 00	27	32 00	27	32 00	27	32 00	27
April,	30 00	25	30 00	25	31 00	25	31 00	25	31 00	25	31 00	25	31 00	25	31 00	25	32 00	25	32 00	25
May,	31 00	26	31 00	26	32 00	26	32 00	26	32 00	26	32 00	26	32 00	26	32 00	26	32 00	26	32 00	26
June,	30 00	26	30 00	26	30 00	26	31 00	26	31 00	26	31 00	26	31 00	26	31 00	26	32 00	26	32 00	26
July,	31 00	26	31 00	26	31 00	26	31 00	26	32 00	26	32 00	26	32 00	26	32 00	26	32 00	26	33 00	26
August,	31 00	26	32 00	26	32 00	26	32 00	26	32 00	26	32 00	26	32 00	26	32 00	26	32 00	26	32 00	26
September,	30 00	25	30 00	25	30 00	25	30 00	25	31 00	25	31 00	25	31 00	25	31 00	25	32 00	25	32 00	25
October,	30 00	26	31 00	26	31 00	26	31 00	26	31 00	26	32 00	26	32 00	26	32 00	26	32 00	26	32 00	26
November,	30 00	25	30 00	25	30 00	25	31 00	25	31 00	25	31 00	25	31 00	25	31 00	25	31 00	25	31 00	25
December,	30 00	25	30 00	25	31 00	25	31 00	25	31 00	25	31 00	25	32 00	25	32 00	25	32 00	25	32 00	25
Total,	\$861 00	307	\$863 00	307	\$867 00	307	\$870 00	307	\$875 00	307	\$876 00	307	\$877 00	307	\$877 00	307	\$881 00	307	\$882 00	307

No. 52.—NUMBER OF DAYS IN OPERATION DURING THE YEAR, ———.
Highest Individual Earnings.

	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
1888.																				
January,	\$50 69	24	\$51 75	23	\$56 25	25	\$58 50	28	\$52 50	25	\$83 80	23	\$45 78	22	\$17 00	21	\$56 28	25	\$89 10	21
February,	48 84	20	50 00	20	49 50	22	56 70	27	46 20	22	86 12	22	46 62	18	85 25	15	51 80	20	29 24	14
March—Strike.																				
April—Strike.																				
May—Strike.																				
June,	80 52	19	52 00	26	45 50	26	42 80	21 ¹ / ₂	38 40	24	86 97	20	46 15	19	37 82	19	36 40	19	46 20	22
July,	39 60	24	47 00	21 ¹ / ₂	42 87	21 ¹ / ₂	50 75	29	38 40	24	81 50	22	49 72	24	45 47	24	32 50	22	44 10	20
August,	39 00	26	50 00	25	45 05	25 ¹ / ₂	55 90	32	40 80	25 ¹ / ₂	20 15	16	50 05	21	42 00	25	45 17	22	35 75	19
September,	41 92	20	53 00	26	45 50	26	42 87	24 ¹ / ₂	41 60	26	81 85	23	57 52	24	49 87	25	37 37	19	28 90	21
October,	42 50	25	61 80	28 ¹ / ₂	47 25	27	54 25	31	40 00	25	81 50	20	29 12	22	41 25	24	52 97	25	39 32	24
November,	52 20	24	60 18	26 ¹ / ₂	46 00	25	53 21	29	42 00	25	83 57	18	51 99	22	55 42	24	53 14	22	39 29	23
December,	56 44	24	67 50	30	57 04	31	55 03	30	45 86	27	24 88	19	51 97	25	50 24	23	58 56	24	51 15	25
Totals, . .	\$401 71	206	\$498 23	228 ¹ / ₂	\$434 96	23 ¹ / ₂	\$470 03	25 ¹ / ₂	\$385 26	22 ¹ / ₂	\$279 84	183	\$428 92	199	\$404 82	200	\$424 19	198	\$356 05	189

Lowest Individual Earnings.

	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
January,	\$29 42	19	\$24 80	18	\$36 54	23	\$28 49	20	\$30 71	18	\$32 56	24	\$18 19	14	\$25 91	24	\$22 99	20	\$25 84	21
February,	18 87	13	30 71	19	37 83	19	38 44	20	23 39	17	30 84	21	25 16	17	21 85	17	27 38	21	24 05	21
March—Strike.																				
April—Strike.																				
May—Strike.																				
June,	29 47	23	30 25	19	19 25	18	25 85	18	18 15	18	26 95	19	16 77	17	23 05	19	13 67	18	24 20	19
July,	26 40	20	21 72	15	31 62	24	29 42	21	27 77	23	24 20	22	20 07	22	24 30	25	20 35	24	12 37	15
August,	32 45	24	27 77	23	38 77	25	34 09	25	31 87	24	31 90	25	33 15	23	37 40	25	21 45	24	18 97	23
September,	31 10	24	36 00	20	37 12	24	22 14	21	25 85	22	30 00	22	30 54	22	27 77	24	23 10	24	21 35	23
October,	31 12	25	35 10	25	35 10	22	24 91	20	17 05	13	33 83	25	30 87	24	83 83	25	15 67	17	24 05	24
November,	31 20	23	37 12	20	23 78	21	34 34	22	19 72	16	29 95	22	23 40	16	30 29	25	20 59	23	19 74	21
December,	28 04	20	38 56	24	20 88	18	30 60	20	30 74	25	32 48	23	26 39	18	32 19	23	20 88	16	28 42	23
Totals, . . .	\$261 17	191	\$282 13	183	\$280 54	194	\$248 28	187	\$224 75	176	\$271 71	203	\$224 54	173	\$260 59	207	\$186 03	187	\$198 99	190

No. 53.—NUMBER OF DAYS IN OPERATION DURING THE YEAR, 1853.
Highest Individual Earnings.

1853	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
January—Mine idle																				
February,	\$4 31	16	\$13 36	16	\$12 82	16	\$10 02	16	\$37 58	16	\$36 70	16	\$36 28	16	\$35 40	16	\$35 15	16	\$34 22	16
March,	68 48	18	60 61	18	58 94	18	52 31	18	51 35	18	49 87	18	45 51	18	45 90	18	45 20	18	43 93	18
April,	41 18	14	38 75	14	38 12	14	36 09	14	35 80	14	35 42	14	32 83	14	32 49	14	32 49	14	30 69	14
May,	25 19	8	24 73	8	23 86	8	22 69	8	22 97	8	21 71	8	21 25	8	20 53	8	18 66	8	17 81	8
June,	13 28	4	18 32	4	13 58	4	12 16	4	11 08	4	10 48	4	10 32	4	10 32	4	10 19	4	9 86	4
July—Mine idle.																				
August,	20 02	6	19 37	6	17 86	6	16 60	6	16 07	6	14 30	6	14 02	6	13 94	6	12 45	6	12 12	6
September,	40 29	12	37 23	12	35 37	12	35 24	12	35 15	12	30 05	12	30 48	12	29 07	12	28 45	12	28 35	12
October,	73 96	24	72 67	24	68 05	24	61 01	24	60 94	24	56 29	24	55 32	24	54 28	24	51 91	24	50 44	24
November,	63 00	23	63 00	23	61 61	23	59 48	23	57 68	23	56 48	23	51 75	23	49 16	23	48 17	23	48 14	23
December,	65 18	21	61 06	21	54 74	21	51 29	21	50 70	21	50 03	21	49 24	21	49 07	21	49 13	21	49 15	21
Total,	\$154 89	146	\$134 10	146	\$413 98	146	\$386 89	146	\$379 32	146	\$361 33	146	\$350 00	146	\$340 37	146	\$331 80	146	\$324 71	146

Lowest Individual Earnings.

January—Mine idle	\$9 24	9	\$10 44	10	\$12 94	10	\$18 22	11	\$20 95	11	\$28 42	12	\$24 07	13	\$25 22	14	\$28 74	15	\$33 81	16
February,	18 96	12	16 52	13	18 88	13	21 34	14	24 35	14	25 27	14	27 65	15	30 07	15	33 67	16	38 65	16
March,	10 17	10	14 11	11	15 24	11	17 24	12	21 70	13	23 27	14	25 25	14	26 00	14	27 50	14	29 45	14
April,	10 81	7	11 27	7	11 85	7	12 22	7	13 26	7	13 80	7	14 83	7	15 52	7	16 96	8	17 13	8
May,	4 17	4	5 03	4	5 82	4	6 37	4	6 93	4	6 37	4	6 14	4	7 13	4	7 87	4	8 90	4
June,																				
July—Mine idle.																				
August,	6 34	6	6 29	6	7 51	6	8 08	6	8 10	6	9 19	6	9 31	6	9 64	6	9 74	6	9 80	6
September,	13 60	12	13 55	12	15 11	12	17 42	12	17 98	12	18 14	12	19 37	12	18 33	12	21 12	13	25 75	13
October,	25 21	24	27 65	24	28 35	24	28 94	24	31 30	24	33 62	24	34 22	24	37 02	24	39 97	24	47 36	24
November,	22 86	22	22 97	22	26 97	22	30 37	22	30 94	22	32 97	22	35 63	22	40 20	22	40 60	22	43 39	22
December,	23 95	21	24 90	21	25 84	21	27 63	21	29 99	21	31 61	21	34 50	21	36 48	21	38 03	21	40 14	21
Total,	\$140 31	127	\$152 78	130	\$168 51	130	\$187 78	132	\$205 45	134	\$217 66	136	\$230 97	138	\$245 61	139	\$264 20	143	\$294 38	144

No. 54.—NUMBER OF DAYS IN OPERATION DURING THE YEAR, 261.

Highest Individual Earnings.

	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
1888.																				
January,	\$75 00	26	\$75 00	26	\$8 00	4	\$31 25	12½	\$16 45	22	\$49 00	20	\$37 25	20	\$49 00	20	\$71 73	18	\$24 00	12
February,	75 00	25	75 00	25	47 00	23	48 00	24	60 00	24	49 52	18	30 05	11	70 52	17	39 00	18	59 20	18
March,	37 67	16	77 18	18	57 93	19	44 00	10	51 64	18	39 34	17	48 88	13	34 35	17	37 78	18	46 01	18
April,	52 34	17	52 50	15	55 11	14	62 04	16	43 54	16	44 91	17	68 48	17	70 47	18	34 61	16	57 12	15
May,	37 12	20	65 48	21	53 20	20	53 52	17	60 26	20	76 30	20	54 33	15	62 48	20	86 47	20	60 59	20
June,	50 67	14	33 18	13	36 55	12	36 14	10	43 76	12	41 14	13	30 00	14	28 77	11	36 75	14	52 00	14
July,	55 61	23	55 45	24	55 28	17	92 93	24	76 99	24	79 55	23	59 36	21	59 59	27	87 97	24	56 75	23
August,	73 29	25	51 53	26	81 25	25	80 00	26	94 01	24	58 16	26	111 27	27	59 52	27	58 50	26	59 71	26
September,	80 53	20	64 80	21	69 22	23	63 36	24	81 35	24	61 47	22	109 28	24	57 49	22	57 49	24	80 58	24
October,	53 60	24	64 89	24	53 64	26	97 89	26	67 07	25	50 53	26	79 09	26	52 37	24	71 83	26	90 85	26
November,	59 14	23	72 19	23	85 72	24	71 15	23	50 93	23	56 73	24	34 57	12	71 15	20	70 63	24	70 13	24
December,	47 85	22	71 42	23	46 66	23	62 67	24	99 77	23	44 55	19	47 30	23	100 14	24	44 63	14	45 06	24
Total,	\$697 90	255	\$758 62	259	\$649 56	230	\$749 95	236½	\$795 77	255	\$651 20	245	\$730 07	226	\$715 85	236	\$630 39	242	\$702 03	244

Lowest Individual Earnings.

January,	\$8 20	8	\$9 00	12	\$3 19	4½	\$6 75	9	\$4 35	8	\$3 75	3	\$23 94	18	\$0 81	10	\$5 77	3	\$1 54	2
February,	10 12	13½	7 49	10	18 75	25	22 01	14	16 96	13	16 96	15	15 00	15	18 34	16	7 83	8	22 00	16
March,	21 34	14	25 98	16	21 93	16	22 53	17	20 75	16	22 96	17	17 80	11	18 97	15	19 06	16	19 30	13
April,	18 85	15	17 86	14	10 39	11	19 99	13	17 38	16	20 09	15	14 27	14	5 74	6	17 66	15	20 77	16
May,	9 01	6	21 23	16	14 53	13	17 86	15	18 23	13	19 68	18	17 53	13	8 80	10	20 03	13	20 15	16
June,	18 56	10	10 53	10	9 57	7	10 51	9	15 77	13	15 12	8	14 97	11	19 09	14	17 02	11	17 52	11
July,	95	1	22 82	17	26 89	17	22 82	17	24 82	21	31 52	21	32 46	22	3 40	3	4 29	8	24 81	14
August,	14 72	14	18 75	12	6 59	6	2 03	2	3 73	3	10 27	15	4 44	4	11 12	11	7 20	5	11 97	10
September,	7 51	7	2 81	2	8 02	5	8 66	7	2 14	2	7 60	7	20 19	20	17 91	15	26 70	24	27 84	22
October,	18 45	16	14 82	15	6 57	10	2 83	4	24 06	22	7 62	6	3 43	3	31	1	6 73	6	1 80	2
November,	5 49	4	4 11	4	3 56	2	4 11	3	71	1	8 54	7	8 69	7	2 61	2	2 89	2	1 58	1
December,	4 63	3	9 72	7	16 72	18	20 59	21	20 57	18	9 89	9	1 11	1	1 90	1	8 54	9	4 47	5
Total,	\$137 81	111½	\$165 12	135	\$146 76	134½	\$160 60	131	\$169 47	144	\$174 00	141	\$174 43	139	\$119 06	104	\$143 72	120	\$173 75	128

No. 55.—NUMBER OF DAYS IN OPERATION DURING THE YEAR, 1882.
Highest Individual Earnings.

	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
1882.																				
January,	\$30 00	25	\$52 00	26	\$74 37	29½	\$52 00	26	\$30 84	12	\$5 56	2	\$49 11	20	\$55 31	21	\$58 74	21	\$51 23	20
February,	32 22	13	46 00	23	44 00	22	61 87	24½	9 10	4	41 23	11	18 32	9	37 40	6	20 60	6	12 47	3
March,	26 98	10	33 45	11	41 70	12	13 51	6	26 72	7	29 73	10	20 89	10	17 55	6	18 42	9	35 06	14
April,	24 12	12	27 32	13	25 32	9	20 79	10	35 09	12	33 14	12	21 81	8	15 00	6	32 50	13	12 51	5
May,	58 99	23	45 24	21	57 66	24	50 35	23	45 08	23	44 68	17	52 45	20	81 50	23	17 93	7	87 34	23
June,	32 50	13	30 00	15	27 30	13	26 01	13	32 50	13	26 59	9	48 53	22	47 60	22	30 85	11	69 55	22
July,	40 62	19	41 01	18	44 92	20	44 58	16	82 49	20	66 69	16	37 55	17	62 50	25	52 50	25	62 50	25
August,	62 50	25	51 00	29	56 70	27	62 30	27	50 12	8	26 19	8	13 00	5	29 04	7	20 94	8	9 10	2
September,	58 12	23½	50 00	25	49 10	25	52 50	25	62 50	25	80 92	18	90 98	18	47 03	17	46 03	18	59 63	18
October,	68 75	27½	45 30	13	18 00	9	29 40	14	67 50	27	81 00	22	84 75	23	107 03	26	72 00	16	72 95	26
November,	62 50	25	50 00	25	52 00	26	52 50	25	65 00	26	69 00	17	71 70	20	70 78	20	86 50	18	94 05	20
December,	62 50	25	50 00	25	52 50	25	27 00	18	62 50	25	75 18	12	24 85	12	68 15	12	28 05	6	53 18	12
Total,	\$579 80	250½	\$327 35	244	\$543 47	244½	\$492 80	227½	\$369 74	202	\$582 91	154	\$533 91	184	\$638 94	191	\$485 06	158	\$605 50	190

Lowest Individual Earnings.

January	\$2 50	2	\$1 50	2	\$11 46	12	\$4 39	4	\$0 67	1	\$1 50	2	\$3 87	4	\$1 54	2	\$2 41	3	\$0 44	1
February,	3 80	4	2 92	3	4 27	4	5 53	4	2 65	4	2 49	3	2 73	3	2 81	3	3 32	3	2 06	2
March,	6 29	6	6 93	8	3 72	5	9 28	8	11 81	6	7 98	6	15 37	9	10 85	8	7 71	6	1 46	1
April,	12 43	10	8 06	7	13 81	12	2 81	3	67	1	87	1	2 10	2	1 19	1	1 82	3	1 82	2
May,	6 98	6	4 76	4	6 47	5	12 09	10	12 61	10	9 28	11	10 58	9	12 09	11	2 38	2	11 10	11
June,	66	1	2 77	2	66	1	4 84	5	9 17	7	55	1	59	1	8 09	7	9 87	9	8 76	8
July,	3 84	5	14 10	14	2 22	2	6 35	5	5 70	10	2 32	3	9 57	9	4 58	8	4 66	8	7 95	5
August,	8 33	6	1 40	2	2 69	3	1 35	2	2 44	2	77	1	9 48	8	6 80	6	2 54	2	4 51	1
September,	10 50	18	2 42	2	6 32	4	59	1	4 10	3	1 36	2	1 44	1	2 77	2	5 51	3	4 32	3
October,	4 91	4	51	1	51	1	1 47	2	9 87	6	8 09	7	1 33	1	81	1	8 61	8	10 41	9
November,	6 64	5	8 46	6	9 21	6	8 97	8	2 14	2	3 60	3	5 30	6	3 12	3	2 02	2	9 17	9
December,	8 50	10	16 95	10	2 69	3	18 22	10	2 33	2	6 76	5	11 57	12	16 87	10	8 50	6	4 39	3
Total,	\$5 33	77	\$70 78	61	\$64 06	58	\$75 90	62	\$64 16	54	\$45 57	45	\$73 93	65	\$71 52	57	\$39 35	55	\$62 33	55

No. 56.—NUMBER OF DAYS IN OPERATION DURING THE YEAR, 150.
Highest Individual Earnings.

	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
1888.																				
January,	\$19 12	20	\$17 12	20	\$52 51	20	\$52 54	20	\$55 02	20	\$50 02	20	\$54 87	20	\$54 87	20	\$55 17	20	\$55 17	20
February,	18 42	10	18 42	10	26 42	10	26 42	10	24 35	10	24 35	10	26 87	10	26 87	10	26 17	10	26 18	10
March,	7 50	3	7 50	3	11 26	5	11 26	5	21 17	9	21 17	9	22 06	9	22 06	9	21 16	9	21 16	9
April,	28 67	13	28 16	13	29 62	13	29 62	13	22 02	8	22 02	8	29 47	13	28 82	13	27 55	13	27 55	13
May,	34 01	12½	34 01	12½	34 26	12½	32 04	12½	39 04	12½	39 04	12½	35 70	12½	35 70	12½	33 87	12½	35 87	12½
June,	23 65	8	23 65	8	21 11	8	21 11	8	23 87	8	23 87	8	20 40	8	20 40	8	19 07	8	19 07	8
July,	24 04	10	24 04	10	22 95	10	22 95	10	24 75	10	24 75	10	24 62	10	24 62	10	24 17	10	24 17	10
August,	28 95	11	28 95	11	28 65	11	28 65	11	31 25	11	31 25	11	29 17	11	29 17	11	27 51	11	27 51	11
September,	35 70	9½	27 67	9½	27 67	9½	29 45	9½	29 45	9½	23 20	9½	23 20	9½	22 75	9½	22 75	9½	27 62	9½
October,	59 85	25	59 85	25	50 32	25	50 32	25	50 55	23	50 55	23	50 82	25	50 82	25	45 37	22	45 37	22
November,	20 80	6	20 80	6	22 60	6	22 60	6	19 87	6	19 87	6	18 00	6	18 00	6	17 08	6	17 08	6
December,	37 70	17	37 70	17	39 35	17	39 35	17	36 00	17	36 00	17	35 80	17	35 80	17	33 85	17	33 85	17
Total,	\$338 41	145	\$357 87	145	\$366 75	147	\$366 31	147	\$340 34	144	\$369 09	144	\$470 98	151	\$329 83	151	\$355 72	148	\$360 60	148

Lowest Individual Earnings.

January,	\$27 95	17	\$27 95	17	\$31 65	20	\$31 65	20	\$33 57	20	\$21 90	10	\$36 37	20	\$36 37	20	\$41 05	20	\$41 05	20
February,	11 72	6	11 72	6	19 87	10	19 87	10	24 90	10	24 90	10	21 60	10	21 60	10	20 55	10	20 55	10
March,	10 07	6	10 07	6	9 34	6	9 34	6	15 75	9	15 75	9	12 59	9	12 59	9	14 40	9	14 40	9
April,	26 40	12	26 40	12	25 60	13	25 60	13	26 25	13	26 25	13	15 20	10	15 20	10	26 70	13	26 70	13
May,	19 10	13	29 0	13	25 03	13	25 03	13	28 53	13	29 09	13	29 09	13	29 15	13	9 33	6	9 33	6
June,	16 95	8	16 95	8	12 65	7	12 65	7	19 07	8	19 07	8	13 35	8	13 35	8	12 20	8	12 20	8
July,	21 82	10	21 32	10	22 72	10	22 72	10	23 82	10	23 82	10	20 55	10	20 55	10	16 20	10	16 20	10
August,	18 00	11	18 00	11	7 50	4	7 50	4	20 80	11	20 80	11	27 20	11	27 20	11	18 10	11	18 10	11
September,	27 67	9½	27 67	9½	20 85	9½	20 85	9½	27 65	9½	27 65	9½	10 55	6	10 55	6	16 25	9½	16 24	9½
October,	44 67	25	44 67	25	39 60	23	39 60	23	42 40	25	24 32	15	21 32	15	21 32	15	25 09	18	35 27	25
November,	18 00	6	18 00	6	17 08	6	17 08	6	15 52	6	15 52	6	18 55	6	18 55	6	16 55	6	16 55	6
December,	27 60	17	27 60	17	26 45	17	26 45	17	32 50	17	32 30	17	25 82	17	25 82	17	33 75	17	33 75	17
Total,	\$279 45	140½	\$279 45	140½	\$358 34	138½	\$358 34	138½	\$310 56	151½	\$284 37	141½	\$355 19	135	\$256 02	138	\$250 22	137½	\$260 39	144½

No. 57.—NUMBER OF DAYS IN OPERATION DURING THE YEAR, ——. Highest Individual Earnings.

	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
1887.																				
November,	\$72 02	21	\$71 08	23	\$71 46	22	\$69 00	23	\$75 12	23	\$68 13	23	\$60 70	23	\$43 12	23	\$13 12	22	\$38 16	21
December,	86 10	23	81 05	22	79 12	23	74 13	23	68 11	21	56 20	23	58 12	22	52 10	22	49 18	23	36 15	20
January, 1888, . .	91 07	22	79 64	21	82 16	22	76 17	21	72 19	22	67 10	24	47 00	21	46 00	22	50 24	24	40 18	22
February,	102 43	23	86 07	23	78 14	23	73 18	23	84 14	23	71 18	23	62 18	23	49 08	23	36 19	20	39 17	21
March,	57 00	20	54 00	20	56 25	21	59 78	21	65 48	21	67 40	21	36 75	21	48 76	20	31 00	20	35 82	21
April,	41 25	12	40 70	13	40 28	14	45 27	13	42 18	14	53 75	13	21 50	13	32 74	13	27 18	13	29 54	12
May,	36 35	10	28 86	10	26 75	10	29 43	10	26 53	10	29 78	10	25 20	12	19 47	10	26 14	10	29 78	11
June,	45 15	11	39 87	11	42 17	11	46 75	11	33 56	10	42 18	12	25 20	12	20 87	12	19 89	11	32 15	12
July,	39 75	11	55 24	11	34 87	11	34 18	10	32 49	11	23 79	10	19 30	10	18 65	10	17 85	9	23 74	11
August,	74 07	20	64 20	19	65 75	21	68 94	21	59 73	21	66 94	21	42 84	21	39 40	20	58 76	20	57 46	21
September,	67 50	18	62 48	18	60 85	19	67 53	18	57 64	19	39 42	19	40 66	19	36 51	18	49 52	18	39 87	19
October,	55 50	17	53 27	18	48 76	16	44 76	17	44 86	17	42 16	17	33 25	17	34 27	17	47 60	17	33 27	17
Total,	\$767 79	208	\$698 48	209	\$686 56	213	\$688 92	214	\$667 06	212	\$613 03	216	\$475 60	213	\$446 00	210	\$456 67	207	\$435 59	208

Lowest Individual Earnings.

	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
November, 1887, . .	\$19 71	18	\$28 57	17	\$18 51	17	\$22 12	20	\$21 42	20	\$26 12	22	\$19 87	22	\$23 76	23	\$21 92	20	\$18 40	22
December,	22 29	16	32 21	21	28 24	17	21 18	19	26 15	23	21 14	20	18 34	17	24 16	23	19 87	22	21 17	20
January, 1888, . .	27 70	20	30 14	19	30 19	20	23 41	20	18 94	17	17 48	18	17 19	17	24 78	24	21 87	23	17 90	21
February,	26 83	17	19 68	17	20 12	17	19 68	18	23 21	18	16 94	17	20 16	18	18 00	21	20 58	21	18 76	22
March,	18 35	16	34 12	21	27 64	17	28 12	18	19 27	13	14 50	13	26 13	12	20 79	21	26 10	21	17 95	13
April,	14 64	9	15 38	11	13 57	11	15 61	11	16 22	14	13 60	14	14 71	11	14 87	14	16 74	15	15 64	11
May,	19 38	10	17 53	11	13 57	7	17 64	11	15 32	11	10 50	11	15 28	11	12 15	11	13 17	12	18 76	12
June,	17 32	10	19 99	12	26 89	12	17 60	12	17 24	12	9 60	12	17 26	12	13 95	12	14 65	12	17 46	11
July,	16 71	8	15 49	9	25 71	11	15 46	10	14 76	11	13 87	11	16 12	10	11 25	10	11 28	10	16 10	11
August,	19 88	16	28 57	20	26 03	14	22 28	18	19 24	15	18 04	12	14 02	12	12 87	12	13 58	18	19 76	18
September,	14 64	16	26 81	20	14 18	16	17 46	17	14 27	16	19 22	16	17 65	16	17 50	16	18 54	17	16 32	16
October,	13 89	13	20 67	16	17 07	15	16 50	14	13 84	12	19 50	15	15 97	15	16 25	15	14 68	16	14 76	13
Total,	\$230 84	169	\$289 16	194	\$265 86	174	\$267 06	188	\$29 88	182	\$200 51	184	\$212 70	173	\$210 33	202	\$212 98	204	\$212 93	190

No. 58.—NUMBER OF DAYS IN OPERATION DURING THE YEAR, 250.
Highest Individual Earnings.

1893.	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
January,	\$51 00	18	\$42 89	18	\$36 25	18	\$34 00	18	\$33 25	18	\$32 75	18	\$32 25	18	\$31 80	18	\$31 50	18	\$31 25	18
February,	40 36	15	32 00	15	31 15	15	31 50	15	31 00	15	30 50	15	30 00	15	27 44	15	26 44	15	20 24	15
March,	56 00	18	54 00	18	45 26	18	37 00	18	36 38	18	34 12	18	32 86	18	32 20	18	32 12	18	30 94	18
April,	54 56	20	53 90	20	47 50	20	45 50	20	44 25	20	42 00	20	41 50	20	41 25	20	40 50	20	40 25	20
May,	64 70	24	57 70	24	56 59	24	54 00	24	52 00	24	51 00	24	50 00	24	48 50	24	47 50	24	46 50	24
June,	61 22	23	56 00	23	54 25	23	52 00	23	51 50	23	50 00	23	48 00	23	47 50	23	46 25	23	45 25	23
July,	55 00	20	54 25	20	53 50	20	51 00	20	50 00	20	48 00	20	45 00	20	45 00	20	43 00	20	41 25	20
August,	58 70	24	57 40	24	56 15	24	55 25	24	54 00	24	53 00	24	52 25	24	52 00	24	50 25	24	49 00	24
September,	55 68	21	54 25	21	54 00	21	53 00	21	52 00	21	51 25	21	51 15	21	50 00	21	48 00	21	47 50	21
October,	63 90	23	59 25	23	58 15	23	57 00	23	56 00	23	54 00	23	47 00	23	46 15	23	46 25	23	47 00	23
November,	66 56	22	58 75	22	58 25	22	56 00	22	55 25	22	53 25	22	46 00	22	44 25	22	44 00	22	43 75	22
December,	75 84	22	67 95	22	68 00	22	50 90	22	50 80	22	50 40	22	47 00	22	46 00	22	45 00	22	44 50	22
Total,	\$408 52	250	\$347 84	250	\$620 26	250	\$577 15	250	\$366 43	250	\$350 87	250	\$522 51	250	\$512 69	250	\$500 81	250	\$487 43	250

Lowest Individual Earnings.

1893.	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
January,	\$23 50	18	\$21 80	18	\$22 50	18	\$21 78	18	\$21 28	18	\$20 75	18	\$20 25	18	\$19 40	18	\$19 25	18	\$18 75	18
February,	20 25	15	19 15	15	19 00	15	18 90	15	18 75	15	18 48	15	18 32	15	16 75	15	16 50	15	16 00	15
March,	28 50	18	27 00	18	26 00	18	25 50	18	25 00	18	23 00	18	22 50	18	21 75	18	21 50	18	21 18	18
April,	38 50	20	36 50	20	31 25	20	29 50	20	28 00	20	26 75	20	26 25	20	25 50	20	24 50	20	24 00	20
May,	45 50	24	45 00	24	43 50	24	43 00	24	42 00	24	40 00	24	39 00	24	38 25	24	37 50	24	36 00	24
June,	39 00	23	37 25	23	36 25	23	36 25	23	36 15	23	37 00	23	38 00	23	35 80	23	35 75	23	34 50	23
July,	40 25	20	40 00	20	39 25	20	39 00	20	38 75	20	38 00	20	36 00	20	35 50	20	34 00	20	31 00	20
August,	40 15	24	39 90	24	39 80	24	39 75	24	39 60	24	39 40	24	39 00	24	38 25	24	38 25	24	38 00	24
September,	38 75	21	38 55	21	38 10	21	38 00	21	37 00	21	36 00	21	35 85	21	34 70	21	34 25	21	32 00	21
October,	40 50	23	39 95	23	39 90	23	39 15	23	38 00	23	36 75	23	36 40	23	36 25	23	35 25	23	34 00	23
November,	33 25	22	37 50	22	38 50	22	37 25	22	36 00	22	35 00	22	34 00	22	33 25	22	31 75	22	31 00	22
December,	35 00	22	23 00	22	27 00	22	26 75	22	26 45	22	26 50	22	26 00	22	25 00	22	24 50	22	24 00	22
Total,	\$428 15	250	\$411 90	250	\$401 05	250	\$395 43	250	\$387 08	250	\$377 63	250	\$371 47	250	\$360 40	250	\$353 10	250	\$340 43	250

No. 59.—NUMBER OF DAYS IN OPERATION DURING THE YEAR, 311.
Highest Individual Earnings.

	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
1888.																				
January,	\$67 58	27	\$60 56	27	\$59 74	27	\$50 60	27	\$46 67	26	\$44 82	26	\$44 81	26	\$44 80	26	\$44 05	26	\$29 77	26
February,	69 75	24	61 25	24	62 00	24	56 90	24	53 85	24	50 00	24	49 67	24	48 62	24	47 82	24	44 02	24
March,	79 40	27	67 50	27	60 40	27	57 35	27	44 85	27	44 82	27	43 10	27	42 80	27	42 87	27	39 75	27
April,	87 75	25	62 51	25	60 10	25	49 97	25	48 91	25	46 10	25	45 65	25	44 82	25	43 85	25	45 55	25
May,	104 80	27	67 50	27	51 05	27	53 25	27	53 12	27	52 22	27	51 87	27	50 57	27	50 12	27	49 82	27
June,	65 10	26	62 27	26	53 25	26	50 10	26	50 75	26	50 45	26	49 57	26	48 27	25	43 16	25	42 72	21
July,	65 00	24	50 27	24	48 85	24	45 55	24	45 97	23	43 16	23	39 10	22	38 50	21	33 52	20	33 55	20
August,	67 60	27	61 97	26	50 32	26	49 55	27	46 27	27	44 77	26	44 69	27	44 52	26	44 30	26	41 47	26
September,	62 50	26	56 37	26	50 00	26	46 02	25	45 07	26	42 52	25	42 45	26	41 50	25	40 40	25	39 60	25
October,	67 80	27	63 67	27	55 45	27	54 72	26	52 87	27	51 62	27	48 85	27	47 37	26	47 05	27	46 87	27
November,	66 00	26	46 75	26	46 42	26	43 40	25	42 05	24	39 02	23	37 57	22	36 55	22	36 00	22	34 50	22
December,	63 00	25	49 90	25	49 40	25	44 35	25	44 10	25	42 35	25	42 12	25	41 50	25	40 97	24	37 77	23
Total,	\$866 28	311	\$712 51	310	\$652 98	310	\$504 76	308	\$574 49	307	\$551 85	304	\$539 33	304	\$524 82	299	\$513 61	298	\$495 39	296

Lowest Individual Earnings.

January,	\$9 58	8	\$11 70	8	\$25 01	18	\$30 00	20	\$34 52	21	\$34 70	22	\$35 46	23	\$36 10	23	\$37 80	26	\$39 00	26
February,	25 00	20	25 37	21	25 62	21	26 50	22	26 90	22	27 50	24	30 10	24	34 10	24	36 00	24	39 84	24
March,	21 25	27	25 45	27	29 02	15	30 20	25	31 90	27	32 02	22	33 32	24	35 17	24	35 37	23	37 25	24
April,	23 45	20	34 07	24	35 30	24	37 67	24	38 72	24	40 35	24	40 45	25	40 52	25	37 50	25	41 50	25
May,	10 47	10	17 05	11	20 80	13	27 90	18	34 60	22	35 17	21	37 57	24	38 45	26	39 75	27	44 82	27
June,	9 27	6	9 85	6	10 82	6	10 32	8	32 50	24	34 35	25	35 50	25	39 60	26	41 92	26	42 30	26
July,	5 47	3	16 35	11	24 00	16	24 87	18	25 85	19	26 25	20	31 42	20	33 02	20	33 05	20	33 25	20
August,	7 22	4	30 42	20	31 72	20	32 52	20	35 62	22	35 67	23	35 70	23	36 80	23	39 24	24	40 15	24
September,	14 90	9	25 00	20	30 00	22	37 30	25	37 65	25	37 75	25	38 05	26	38 87	26	38 90	26	39 10	26
October,	2 75	2	20 00	21	25 00	22	33 77	25	39 00	25	41 62	26	43 37	27	44 02	27	44 52	27	44 82	27
November,	21 58	18	23 24	20	23 85	20	25 10	20	28 75	20	29 82	20	33 10	22	33 56	22	33 84	22	34 20	22
December,	26 65	21	28 75	21	31 95	22	32 40	22	32 80	22	33 81	22	33 90	22	34 20	22	34 50	23	34 61	24
Total,	\$180 59	148	\$257 45	210	\$312 29	219	\$348 22	247	\$398 31	273	\$409 32	277	\$521 94	285	\$544 41	283	\$452 39	295	\$110 83	295

No. 60 —NUMBER OF DAYS IN OPERATION DURING THE YEAR, —
Highest Individual Earnings.

	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
1883.																				
January,	\$64 29	26	\$65 67	26	\$57 36	24	\$68 36	26	\$41 86	26	\$78 33	26	\$67 29	26	\$36 43	24	\$54 56	26	\$67 89	26
February,	61 17	24	55 88	23	49 68	23	95 49	25	63 51	25	63 63	25	59 94	24	60 96	24	65 22	23	28 74	9
March,	51 72	25	53 14	15	59 49	25	102 29	25	69 39	25	74 28	25	71 07	25	70 20	25	65 91	23	54 06	17
April,	47 88	19	63 10	22	43 59	16	106 83	22	65 79	20	64 41	22	53 77	18	51 48	20	55 23	19	34 77	14
May,	23 43	9	20 01	7	22 14	9	45 12	10	28 23	9	27 94	9	24 03	8	25 92	9	23 85	9	4 11	2
June,	4 89	2	12 09	4	8 22	3	10 23	4	7 47	4	7 29	3	5 79	3	2 46	1	7 47	3	7 83	3
July,	31 93	19	56 10	19	36 84	18	59 19	19	40 59	17	59 13	19	41 61	17	37 62	15	39 92	16	43 72	18
August—Not in operation.																				
September—Not in operation.																				
October,	27 96	12	42 09	13	27 78	13	52 11	13	31 47	13	37 63	19	32 55	13	31 80	13	61 77	20	69 09	20
November,	55 62	23	38 13	17	58 68	23	98 77	24	59 17	23	55 62	23	52 66	21	45 39	22	52 77	74	67 17	24
December,	28 14	12	22 47	10	30 66	12	52 38	13	31 53	13	30 87	13	26 70	12	27 00	13	29 07	13	28 02	13
Total,	\$397 08	171	\$430 68	153	\$394 44	166	\$690 77	181	\$459 03	173	\$499 18	184	\$443 41	167	\$409 26	166	\$465 27	229	\$409 86	146

Lowest Individual Earnings.

January,	\$19 88	26	\$11 99	26	\$15 41	26	\$19 98	26	\$17 43	26	\$13 23	26	\$12 78	26	\$17 97	26	\$51 27	26	\$13 73	26
February,	51 42	25	51 93	25	39 78	24	50 01	25	36 39	24	32 01	24	49 29	24	39 57	23	43 44	25	52 05	23
March,	51 48	24	57 75	24	40 11	24	46 23	24	32 28	23	46 71	24	39 96	20	37 44	24	47 8	24	60 57	24
April,	43 95	22	32 55	15	33 03	15	30 78	16	30 36	18	27 66	15	27 42	15	22 38	18	59 28	19	44 01	21
May,	24 15	9	2 97	4	8 52	7	13 32	8	12 18	8	16 52	9	14 16	7	9 04	7	23 16	9	18 66	10
June,	9 87	4	2 52	3	5 31	4	10 93	4	8 91	4	8 91	4	9 57	4	6 66	4	7 41	4	7 38	4
July,	43 68	20	38 61	20	33 81	19	36 93	20	35 01	20	31 68	19	37 62	20	27 60	18	34 53	19	38 80	19
August—Not in operation.																				
September—Not in operation.																				
October,	61 41	25	29 79	15	12 93	10	55 08	25	34 26	24	39 57	25	50 55	25	17 94	12	45 57	20	2 57	11
November,	46 50	21	55 02	23	26 31	14	47 73	22	35 03	22	36 75	21	34 08	18	29 70	21	48 66	23	37 02	24
December,	33 60	13	14 79	10	22 05	12	20 76	13	17 97	12	11 52	8	14 75	12	23 88	10	24 30	13	19 02	12
Total,	\$425 91	189	\$337 92	165	\$277 29	155	\$361 90	183	\$290 82	181	\$393 84	175	\$320 18	171	\$462 18	163	\$335 20	182	\$333 81	174

No. 61.—NUMBER OF DAYS IN OPERATION DURING THE YEAR, 242.
Highest Individual Earnings.

1888.	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
January,	\$5 73	20	\$30 49	20	\$46 08	18	\$40 32	20	\$36 69	18	\$35 31	17	\$33 90	19	\$32 82	17	\$31 38	17	\$28 83	17
February,	34 71	13	34 14	14	28 47	15	27 24	14	26 34	14	25 95	14	24 00	13	23 61	14	21 06	11	20 82	13
March,	43 59	13	83 00	13	32 60	11	21 00	13	15 00	6	8 00	6	1 89	2	6 00	6	3 48	3	3 45	3
April,	68 00	25	56 00	25	51 00	21	50 00	25	47 00	24	30 00	20	33 36	18	31 53	17	31 26	20	26 91	15
May,	75 30	26	66 24	26	63 24	26	59 94	26	40 50	24	37 92	21	27 15	18	25 35	17	24 24	20	23 46	21
June,	53 94	22	45 96	20	38 13	21	37 92	21	34 00	20	28 32	21	27 70	18	27 90	22	19 05	17	13 59	15
July,	61 83	23	49 38	23	42 87	23	34 07	19	32 79	22	30 75	18	29 70	18	33 73	26	32 28	23	29 94	25
August,	58 85	26	56 79	26	47 49	26	43 23	20	38 16	21	37 20	20	36 69	22	33 73	26	30 18	23	29 97	13
September,	54 12	24	49 35	23	45 96	23	43 47	24	36 75	17	35 25	21	34 95	22	32 91	23	30 18	23	29 97	13
October,	60 15	22	55 77	21	55 56	22	46 86	24	44 70	26	43 23	25	40 68	24	39 24	26	38 85	12	37 35	25
November,	86 25	23	69 27	25	66 81	23	56 28	22	43 65	24	37 92	20	37 35	21	36 18	23	32 07	21	30 81	19
December,	65 46	24	49 86	22	45 45	24	43 98	23	42 66	19	41 52	21	41 37	16	39 06	18	37 23	23	35 04	21
Total,	\$717 74	261	\$118 25	258	\$563 06	253	\$508 31	251	\$438 54	235	\$391 37	224	\$361 07	201	\$328 38	209	\$301 08	190	\$280 17	187

Lowest Individual Earnings.

1888.	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
January,	\$2 91	3	\$7 14	5	\$9 69	7	\$11 91	11	\$13 02	13	\$14 31	15	\$16 71	11	\$17 55	14	\$19 14	14	\$20 49	15
February,	3 75	2	5 04	3	7 20	3	9 51	8	10 44	6	11 73	11	12 66	12	14 07	10	14 49	12	15 96	13
March,	1 89	2	8 00	6	15 00	6	21 00	13	32 60	11	35 00	13	43 00	13	51 00	21	56 00	25	68 00	25
April,	3 45	3	3 48	3	6 00	6	20 00	10	30 00	20	47 00	24	50 00	25	51 00	20	53 53	18	83 36	18
May,	4 30	3	11 40	11	15 37	10	18 00	14	21 78	9	26 55	21	26 91	15	28 46	21	24 24	20	25 35	17
June,	6 24	5	9 54	6	12 73	13	15 93	13	19 83	19	21 09	18	22 86	16	23 46	18	30 75	18	32 79	22
July,	1 33	2	2 07	2	5 49	5	8 25	12	13 59	15	19 05	17	27 90	22	29 70	18	30 75	18	32 79	22
August,	42	1	6 12	6	8 90	10	11 24	8	12 66	10	13 92	7	15 87	16	16 35	19	21 48	16	21 72	21
September,	4 35	5	5 04	5	9 93	9	11 10	7	16 45	22	21 21	22	23 13	16	25 20	21	27 18	19	29 07	18
October,	3 15	3	9 24	6	10 80	9	14 58	13	20 90	16	23 07	19	26 28	13	28 26	20	29 34	25	30 45	16
November,	2 61	3	7 41	6	8 46	7	9 51	9	10 83	9	12 84	9	14 67	19	16 80	12	20 40	17	21 33	15
December,	4 50	2	6 60	5	9 30	10	10 11	10	11 19	15	11 13	14	15 48	15	16 71	19	20 88	18	22 35	11
Total,	\$38 88	32	\$71 03	64	\$112 27	95	\$161 07	128	\$212 69	165	\$259 90	190	\$295 47	195	\$270 86	195	\$295 43	202	\$323 87	191

No. 62.—NUMBER OF DAYS IN OPERATION DURING THE YEAR, 2341-2.
Highest Individual Earnings.

	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
1888.																				
January,	\$37 06	..	\$30 09	..	\$36 59	..	\$48 85	..	\$53 74	..	\$19 04	..	\$18 32	..	\$51 30	..	\$51 09	..	\$37 45	..
February,	38 03	..	35 00	..	32 78	..	40 00	..	57 29	..	42 40	..	31 40	..	41 88	..	41 62	..	35 37	..
March,	47 24	..	39 50	..	53 52	..	54 26	..	52 22	..	51 68	..	51 68	..	51 04	..	51 25	..	31 28	..
April,	50 06	..	41 25	..	58 57	..	45 03	..	57 74	..	55 75	..	55 75	..	70 37	..	41 13	..	44 62	..
May,	48 75	..	39 99	..	60 85	..	44 68	..	54 99	..	60 93	..	60 93	..	66 39	..	32 52	..	42 96	..
June,	54 00	..	40 00	..	57 68	..	49 75	..	50 93	..	65 82	..	65 82	..	71 66	..	50 07	..	58 47	..
July,	41 25	..	45 48	..	70 98	..	50 00	..	52 13	..	60 35	..	60 35	..	55 50	..	57 50	..	78 93	..
August,	59 25	..	47 50	..	62 73	..	63 25	..	74 25	..	68 30	..	56 25	..	72 15	..	62 36	..	72 61	..
September,	46 00	..	49 93	..	60 95	..	67 00	..	63 27	..	63 59	..	62 26	..	62 50	..	60 08	..	82 54	..
October,	45 00	..	52 50	..	44 97	..	68 75	..	63 25	..	62 27	..	46 50	..	59 98	..	60 08	..	48 13	..
November,	42 01	..	52 50	..	52 17	..	66 00	..	60 25	..	65 72	..	57 50	..	52 50	..	48 75	..	55 60	..
December,	49 03	..	50 00	..	45 77	..	56 97	..	63 11	..	59 62	..	58 50	..	36 65	..	36 12	..	45 30	..
Total,	\$558 58	..	\$523 74	..	\$637 56	..	\$654 04	..	\$703 17	..	\$705 47	..	\$655 26	..	\$694 92	..	\$594 99	..	\$633 26	..

Lowest Individual Earnings.

January,	\$17 98	..	\$18 70	..	\$21 69	..	\$18 71	..	\$12 84	..	\$22 65	..	\$15 31	..	\$12 27	..	\$12 70	..	\$10 93	..
February,	22 03	..	15 68	..	18 85	..	25 62	..	15 77	..	13 77	..	19 16	..	12 61	..	13 64	..	7 30	..
March,	21 45	..	13 79	..	25 99	..	18 66	..	14 53	..	22 29	..	13 24	..	7 85	..	10 97	..	8 67	..
April,	32 88	..	24 81	..	23 73	..	26 73	..	16 25	..	26 63	..	20 88	..	14 61	..	11 23	..	3 75	..
May,	38 87	..	34 89	..	32 25	..	32 03	..	24 81	..	37 84	..	32 18	..	21 45	..	37 45	..	2 35	..
June,	37 17	..	33 86	..	36 81	..	31 06	..	26 49	..	23 68	..	31 64	..	13 56	..	2 87	..	24 88	..
July,	31 90	..	30 95	..	45 44	..	37 67	..	41 56	..	48 53	..	9 43	..	22 86	..	88 38	..	17 19	..
August,	37 49	..	27 10	..	37 38	..	15 76	..	26 55	..	35 55	..	35 15	..	46 39	..	32 88	..	10 13	..
September,	23 19	..	31 10	..	24 12	..	18 57	..	22 99	..	31 00	..	49 32	..	16 32	..	20 75	..	9 16	..
October,	34 71	..	35 63	..	28 53	..	38 26	..	18 48	..	20 80	..	55 38	..	7 46	..	28 04	..	13 09	..
November,	29 61	..	41 06	..	32 83	..	34 06	..	8 89	..	36 99	..	33 89	..	13 13	..	20 42	..	18 59	..
December,	31 72	..	39 25	..	21 94	..	29 99	..	7 68	..	10 50	..	53 52	..	28 18	..	23 71	..	19 06	..
Total,	\$357 90	..	\$347 42	..	\$349 56	..	\$327 15	..	\$236 37	..	\$330 23	..	\$329 10	..	\$216 69	..	\$223 58	..	\$140 10	..

No. 63.—NUMBER OF DAYS IN OPERATION DURING THE YEAR, 110.
Highest Individual Earnings.

	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
1888.																				
January—Works idle.																				
February--Works idle.	\$76 74	23	\$73 92	23	\$56 57	23	\$65 46	23	\$55 43	22	\$72 13	21	\$51 98	23	\$51 95	23	\$51 41	23	\$60 12	21
March,	65 01	21	61 08	22	62 64	22	62 61	22	62 58	22	62 10	22	61 82	22	61 20	22	60 12	21	50 19	17
April,	57 06	17	55 86	17	54 64	17	54 09	17	53 67	17	51 60	17	51 42	17	50 76	17	50 19	17		
May,																				
June -Works idle.																				
July--Works idle.																				
August--Works idle.																				
September--Works idle.	30 93	9	27 57	9	25 92	9	25 65	9	25 26	9	25 23	8	25 20	9	23 05	9	24 78	9		
October,	76 01	21	68 01	20	62 34	21	61 17	21	61 14	21	60 30	21	59 16	21	59 07	21	57 60	21		
November,	15 33	5	15 21	5	14 49	5	14 46	5	14 37	5	14 13	5	13 92	5	13 74	5	13 74	5		
December,																				
Total,	\$21 08	96	\$4 65	95	\$286 60	97	\$383 47	97	\$282 45	96	\$275 49	94	\$273 50	97	\$271 77	97	\$267 84	96		

Lowest Individual Earnings.

January--Works idle.																				
February--Works idle.	\$15 24	12	\$16 28	16	\$7 09	20	\$23 06	18	\$23 93	22	\$14 05	21	\$14 05	21	\$35 34	21	\$18 37	23		
March,	18 12	13	21 63	15	27 36	15	27 51	20	27 93	21	28 95	18	20 45	21	30 60	19	32 40	19		
April,	12 48	10	15 63	15	19 71	13	20 13	11	21 90	14	23 31	14	24 51	15	26 28	15	28 71	17		
May,																				
June -Works idle.																				
July--Works idle.																				
August--Works idle.																				
September--Works idle.	5 40	6	5 53	4	7 20	5	8 16	6	8 58	6	9 18	5	9 72	7	10 20	6	11 91	8		
October,	22 51	14	25 77	16	28 17	15	29 53	18	31 44	19	32 53	17	35 43	17	37 11	20	37 95	20		
November,	4 40	4	5 67	5	6 93	4	7 38	4	7 44	5	7 47	5	8 04	5	8 23	5	8 43	5		
December,																				
Total,	\$18 15	59	\$4 00	71	\$1 6 46	72	\$25 85	67	\$131 22	77	\$35 54	80	\$142 20	86	\$47 81	86	\$57 77	92		

No. 64.—NUMBER OF DAYS IN OPERATION DURING THE YEAR, 154.
Highest Individual Earnings.

	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
1883.																				
January,	\$49 78	10	\$31 61	10	\$31 16	10	\$29 38	10	\$34 07	10	\$29 38	10	\$30 60	10	\$3 78	10	\$22 62	7	\$50 49	10
February,	66 23	18½	66 24	18½	60 69	18½	39 38	18½	73 78	18½	73 78	18½	58 05	17	70 07	19	59 25	19	81 73	19
March,	85 75	23	85 75	23	83 20	21	66 08	21	88 66	23	88 67	23	88 35	23	82 88	22½	87 42	23	70 31	21
April,	91 23	22½	91 23	22½	1 4 31	22½	104 32	22½	93 93	23	96 93	23	72 77	22	77 42	22	103 41	23	66 70	21
May,	58 45	18½	58 46	18½	66 57	17	63 98	17	65 37	18	65 36	18	13 62	7	103 89	18½	85 53	18½	46 63	15½
June.—Not working.																				
July,	41 95	11	41 96	11	51 71	11	51 71	11	41 43	11	41 43	11	37 68	11	40 12	11	8 67	4	42 41	10
August,	84 26	19½	84 26	19½	75 92	17½	75 91	17½	83 93	17½	83 98	17½	77 13	19½	63 60	18	72 88	18½	71 71	18½
September,	81 17	21½	81 17	21½	50 00	12	105 73	21½	69 33	21½	69 33	21½	99 05	20½	79 56	21	92 81	21½	86 59	21
October,	34 22	9½	34 22	9½	28 07	9½	28 07	9½	45 93	9½	45 93	9½	50 71	9½	43 11	9½	42 21	9½	40 16	..
November.—Not working.																				
December.—Not working.																				
Total,	\$593 04	154	\$574 90	154	\$552 03	139	\$567 56	148½	\$539 48	152	\$594 79	152	\$530 96	140½	\$594 43	151½	\$574 90	144	\$553 73	136

Lowest Individual Earnings.

	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
January,	\$19 38	10	\$23 49	8	\$19 95	9	\$27 43	10	\$24 84	10	\$14 58	6	\$20 94	9	\$26 90	9	..	6	\$11 04	10
February,	36 84	18	58 26	18	45 27	17½	55 84	17	33 18	16	45 21	18	46 50	18	46 32	18	12 36	..	21 63	17
March,	50 04	23	67 08	2½	53 61	21½	78 32	23	54 45	22	77 77	22½	52 77	21½	54 33	22½	46 20	19	32 97	20
April,	54 27	22½	..	..	39 72	18	72 09	22½	43 74	20	41 61	15	37 71	14	45 66	20	44 49	19	33 81	22
May,	41 13	18	7 02	4	..	..	66 78	17½	35 88	17	47 88	18	44 25	17	41 19	17	40 61	16	..	..
June, . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
July,	20 55	11	17 22	10	21 60	10	14 61	9	20 95	7	33 97	10	84	..	18 75	9	21 69	10	3 54	3
August,	46 89	18	17 40	8	49 83	16	19 35	12	53 64	19	67 10	18	15 17	7	46 77	18½	44 45	16	19 17	17
September,	50 25	21	39 12	17	47 23	21	13 89	9	63 18	21	75 60	20	53 40	20	45 15	21	54 84	21	28 26	20
October,	23 25	9½	10 53	5	22 98	9½	17 25	9	26 79	9	29 37	9½	9 93	5	26 01	9½	24 75	9½	12 66	9½
November, . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
December, . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Total,	\$342 60	151	\$240 12	96½	\$291 24	122½	\$365 56	129	\$353 65	141	\$433 09	137	\$281 51	111½	\$351 11	141½	\$289 30	116½	\$163 08	118½

No. 65.—NUMBER OF DAYS IN OPERATION DURING THE YEAR, 1892.
Highest Individual Earnings.

	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
1892.																				
January,	\$1 37	25	\$15 66	25	\$13 56	22	\$19 51	23	\$12 96	22	\$15 82	25	\$11 59	26	\$17 32	24	\$15 36	17	\$18 49	25
February,	60 77	23	47 06	24	56 97	23	35 66	24	61 78	24	44 72	10	57 30	23	29 36	13	51 40	23	44 44	21
March,	83 15	22	59 52	22	41 34	22	46 46	22	53 08	19	49 70	22	46 89	21	20 31	11	36 89	18		
April,	54 93	18	52 61	20	50 71	19	38 54	21	62 41	19	37 91	19	49 14	20	38 14	19	42 30	20	2 70	3
May,	87 74	14	31 27	15	26 69	15	25 56	15	31 89	12	25 35	14	33 51	15	27 10	15	21 89	14		
June—Operation suspended			entire m onth.																	
July,	27 86	14			41 91	20	42 24	20												
August,	66 46	22	6 83		51 74	22	43 32	21					22 81	11			27 40	10		
September,	69 06	22	46 62	18	50 06	20	46 35	20	48 79	18	27 06	13	41 56	18	33 40	14	40 31	17	30 72	15
October,	66 15	25	64 79	24	48 42	25	50 76	25	65 41	24	51 87	26	43 97	21	63 85	24	50 42	25	49 31	25
November,	83 84	21	69 12	26	57 26	26	52 27	26	53 98	24	53 69	26	49 91	26	70 17	26	49 68	26	47 56	26
December,	88 88	23	63 89	23	40 27	22	41 56	23	48 37	23	79 79	23	59 86	21	61 92	24	40 66	24	44 21	23
Total,	\$715 21	232	\$707 37	202	\$111 87	236	\$175 28	240	\$173 62	185	\$110 94	177	\$159 63	205	\$114 57	170	\$105 31	194	\$367 43	141

Lowest Individual Earnings.

	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
1892.																				
January,	\$5 11	24	\$19 58	25	\$13 50	25	\$39 14	22	\$16 17	25	\$16 69	25	\$12 24	25	\$15 16	25	\$17 39	26	\$13 69	25
February,	37 92	23	36 41	23	31 96	23	45 42	24	48 23	24	47 90	24	16 66	10	46 66	22	31 98	20	24 24	16
March,	46 55	20	36 49	19	41 44	22	34 51	21											3 53	2
April,	51 18	18	31 20	18	4 61	3	22 67	16			5 85	4	15 01	9					37 10	19
May,	30 05	13	25 26	14			19 64	13			21 35	12	28 00	15			15 10	10	22 51	15
June—Operation suspended			entire m onth																	
July,	45 36	21	42 76	21	45 34	21	25 68	18												
August,	47 88	22	43 46	22	49 88	22	38 18	22			38 53	19	18 60	8					6 56	4
September,	43 06	18	39 30	19	45 12	20	21 81	12	7 08	6	42 53	20	23 01	8	17 91	11	10 82	6	40 83	18
October,	51 34	21	35 76	24	48 82	25	36 21	24	46 62	21	43 74	25	41 00	25	48 24	21	35 67	22	39 49	24
November,	43 03	24	47 23	26	50 78	25	47 91	26	43 09	22	46 92	26	47 90	26	60 20	24	38 82	23	75 76	26
December,	41 50	22	39 05	22	39 42	22	36 62	22	37 72	23	43 76	23	45 78	23	57 43	21	31 64	22	67 57	23
Total,	\$182 98	229	\$116 76	233	\$100 90	208	\$367 85	220	\$228 86	121	\$37 32	178	\$298 23	149	\$295 60	124	\$117 42	129	\$371 28	172

No. 66.—NUMBER OF DAYS IN OPERATION DURING THE YEAR; ———.
Highest Individual Earnings.

1888.	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
January—Not in operation.																				
February, . . .	\$72 80	21	\$55 00	20	\$70 00	21	\$65 00	20	\$48 00	20	\$61 00	21	\$53 0	21	\$48 25	21	\$45 80	20	\$48 50	21
March, . . .	55 50	24	55 60	26	55 60	26	58 30	26	77 0	26	79 00	26	64 13	25	92 16	26	77 13	26	71 20	26
April, . . .	54 20	24	51 00	24	51 00	24	77 30	24	66 70	24	66 72	24	85 00	24	65 30	23	62 20	23	67 20	23
May, . . .	64 00	26	54 20	25	67 20	26	76 28	26	76 30	26	68 60	25	70 30	23	73 24	24	70 60	26	65 00	24
June, . . .	30 6	21	51 07	21	50 60	20	66 40	20	52 20	20	48 21	20	60 21	21	58 60	20	74 15	21	54 03	21
July, . . .	21 60	9	25 00	9	31 20	9	28 40	9	36 03	9	30 06	9	26 20	9	29 00	9	23 30	9	26 00	9
August, . . .	28 21	12	31 06	13	36 21	13	38 00	13	40 21	13	39 00	13	24 39	10	33 03	12	30 60	12	21 60	10
September—Not in operation.																				
October—Not in operation.																				
November, . . .	63 00	22	55 21	22	60 27	22	64 27	21	60 90	23	21 48	22	70 06	22	67 20	22	63 40	22	63 21	22
December, . . .	56 15	13	35 21	13	48 90	13	41 94	12	27 33	13	44 00	13	48 45	12	41 46	13	41 22	12	56 38	13
Total, . . .	\$467 06	172	\$416 45	173	\$470 93	174	\$515 89	171	\$434 67	171	\$453 07	173	\$501 74	167	\$511 24	170	\$490 20	171	\$473 12	169

Lowest Individual Earnings.

January—Not in operation.																				
February, . . .	\$26 20	20	30 49	21	\$37 14	21	\$38 16	21	\$40 30	20	\$23 50	20	\$28 14	21	\$31 63	21	\$31 90	21	\$31 16	20
March, . . .	21 00	20	29 30	25	36 00	26	39 20	26	23 40	24	26 70	25	31 20	25	46 00	26	34 03	25	42 03	26
April, . . .	31 20	24	31 60	24	42 20	24	22 40	23	31 60	24	34 80	23	35 00	24	25 60	20	35 30	24	37 20	22
May, . . .	25 60	20	23 00	20	41 20	26	31 60	26	48 60	26	34 60	25	35 00	24	48 60	26	35 21	25	36 30	23
June, . . .	32 63	21	31 16	21	24 21	21	31 03	21	38 63	21	34 00	21	30 03	21	33 60	21	30 15	21	36 03	21
July, . . .	16 03	9	13 40	8	18 60	9	22 00	9	22 63	9	15 21	9	13 63	9	14 69	9	17 03	9	16 33	9
August, . . .	18 00	13	20 21	13	11 60	10	12 60	5	11 21	5	14 63	10	14 39	10	20 60	13	20 21	13	17 60	10
September—Not in operation.																				
October—Not in operation.																				
November, . . .	30 27	22	31 33	21	36 00	22	39 45	22	37 60	22	33 21	22	30 15	21	37 15	22	33 09	22	39 40	22
December, . . .	19 71	13	24 72	13	23 48	12	26 25	13	27 93	12	21 18	13	24 39	12	16 35	13	22 17	12	20 79	12
Total, . . .	\$220 64	162	\$235 11	166	\$280 43	171	\$262 69	166	\$284 90	163	\$247 83	168	\$243 93	167	\$274 22	171	\$259 20	172	\$276 81	165

No. 67.—NUMBER OF DAYS IN OPERATION DURING THE YEAR, ———.
Highest Individual Earnings.

	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
1888.																				
January,	\$50 56	19	\$35 10	19	\$30 50	19	\$32 70	19	\$33 38	19	\$39 16	19	\$32 56	19	\$37 24	19	\$32 60	19	\$29 76	19
February,	62 70	18	52 28	18	48 01	18	42 08	18	45 30	18	46 26	18	46 48	18	46 49	18	44 56	18	37 69	18
March,	48 00	17	42 50	17	36 00	17	36 00	17	36 00	17	36 00	17	32 00	17	27 00	17	26 00	17	20 00	17
April,	29 50	11	29 62	11	30 70	11	25 18	11	3 68	11	25 18	11	24 36	11	22 94	11	22 36	11	39 20	9
May,	17 66	6	15 86	6	15 02	5	14 28	5	11 60	6	11 22	5	11 14	6	10 47	5	10 19	5	51 40	4
June--No work.																				
July--Only a few men worked			part th me.																	
August,	23 69	10	23 09	10	22 14	10	20 63	10	19 91	10	21 70	10	21 58	10	18 22	10	18 22	10	15 02	8
September,	31 68	11	29 98	11	26 40	11	22 42	11	21 30	11	21 30	11	21 78	11	23 80	11	20 94	11	13 96	11
October,	52 37	25	52 37	15	59 34	25	56 94	25	51 20	25	53 32	25	38 16	25	43 75	25	43 75	25	37 66	24
November,	59 44	22	52 22	22	5 56	22	49 02	22	41 70	22	41 86	22	41 86	22	43 38	22	44 72	22	38 16	20
December,	54 10	20	56 80	20	48 98	20	42 08	20	40 20	20	43 39	20	43 34	20	45 30	20	44 30	20	37 98	20
Total,	\$429 10	159	\$349 82	159	\$367 65	158	\$341 33	158	\$384 27	159	\$339 39	158	\$313 36	159	\$318 59	158	\$307 64	158	\$320 83	150

Lowest Individual Earnings.

January,	\$31 50	19	\$26 97	19	\$26 97	19	\$24 90	19	\$24 33	19	\$27 00	19	\$25 64	19	\$23 70	19	\$23 50	19	\$26 32	19
February,	44 80	18	32 76	18	20 70	17	36 52	17	39 50	18	30 12	17	35 33	15	33 24	16	28 86	16	23 70	14
March,	26 00	17	13 50	16	16 00	17	15 00	15	16 00	14	17 12	12	19 00	14	17 70	13	15 50	13	18 20	11
April,	24 00	11	13 20	10	10 66	7	14 52	9	17 08	6	13 44	8	16 12	10	13 44	8	13 20	9	19 92	5
May,	12 58	5	5 20	4	13 78	5	17 68	5	19 14	6	18 26	6	18 30	6	18 30	6	17 66	5	16 68	5
June--No work.			a few d days																	
July--Only a few men worked																				
August,	17 60	10	14 62	10	11 40	10	11 40	10	13 86	10	13 00	9	15 60	10	14 84	9	15 54	10	15 00	10
September,	20 68	11	15 24	11	16 99	11	16 99	11	13 26	11	10 60	7	15 77	10	14 34	9	15 76	9	10 34	8
October,	44 89	25	31 78	21	31 24	19	27 62	21	37 66	23	38 50	25	36 74	25	36 74	20	38 00	20	25 60	22
November,	41 42	22	39 78	22	37 06	21	37 56	21	37 40	21	36 71	22	38 16	21	37 22	21	38 80	22	33 40	22
December,	40 10	20	36 60	20	36 46	20	35 50	20	35 76	18	3 98	20	32 92	20	32 92	20	32 30	20	33 12	20
Total,	\$303 48	178	\$232 65	151	\$224 26	146	\$237 69	148	\$253 99	146	\$236 73	145	\$256 34	15	\$241 41	141	\$239 12	143	\$222 28	136

No. 68.—NUMBER OF DAYS IN OPERATION DURING THE YEAR, 238.

Highest Individual Earnings.

	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
1888.																				
January,	\$58 01	15	\$45 74	12	\$61 83	16	\$46 43	17	\$47 19	17	\$51 87	17	\$47 56	16	\$49 38	17	\$66 93	16	\$62 27	18
February,	27 13	7	31 75	12	29 94	8	25 86	4	27 43	10	26 60	4	28 22	12	28 26	11	33 41	8	23 98	8
March,	4 83	1	7 61	2	6 24	2	1 62	1	6 59	2	6 36	2	2 39	1	5 88	2	6 26	2	6 47	2
April,	23 49	9	25 96	8	24 04	9	20 63	10	19 46	9	24 71	9	21 59	8	21 06	9	24 57	7	24 12	8
May,	26 20	7	41 06	14	34 16	13	29 98	10	29 95	13	40 40	13	31 07	13	29 18	13	38 70	13	30 56	9
June,	52 99	20	57 74	22	41 29	17	40 47	20	52 01	12	39 28	20	41 74	22	43 48	14	55 43	20	53 64	21
July,	63 85	17	70 44	20	61 62	17	46 07	12	50 00	25	62 96	21	54 44	21	50 00	25	77 50	21	78 63	22
August,	71 83	19	61 55	22	42 51	16	45 39	22	55 35	24	35 47	18	43 64	22	56 81	26	57 69	17	62 68	20
September,	43 97	17	74 71	22	32 79	20	47 60	16	45 30	21	57 30	21	45 48	23	33 19	16	48 43	19	40 39	19
October,	50 99	23	55 05	27	41 32	23	43 49	18	54 34	27	42 71	21	49 72	24	41 40	25	50 50	26	50 59	23
November,	60 47	24	78 29	25	53 86	24	50 80	22	40 62	19	59 63	21	53 82	25	49 78	23	47 94	21	53 02	23
December,	48 45	20	63 87	22	52 61	20	46 62	19	49 12	21	52 84	16	46 03	22	46 54	21	50 86	18	51 39	17
Total,	\$532 22	179	\$613 77	208	\$482 21	185	\$450 01	175	\$477 36	196	\$500 43	183	\$465 23	209	\$434 96	202	\$558 22	198	\$543 79	192

Lowest Individual Earnings.

	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
January,	\$47 16	18	\$35 26	11	\$40 90	17	\$45 37	16	\$38 21	14	\$41 34	16	\$43 28	17	\$47 90	17	\$43 10	13	\$20 71	9
February,	28 02	9	26 18	9	27 13	10	26 80	9	15 32	8	21 37	8	25 00	9	21 76	7	25 09	11	21 19	9
March,	3 65	1	5 65	2	2 79	1	1 10	1	15 77	7	1 10	1	3 68	1	8 20	7	5 16	2	13 83	7
April,	14 28	9	17 94	9	14 77	10	5 62	2	21 20	14	11 85	6	14 25	9	13 92	8	16 10	9	22 18	13
May,	14 25	14	21 85	11	22 26	11	26 03	13	21 78	21	14 72	10	24 96	13	38 51	20	32 10	11	42 74	18
June,	32 30	19	41 39	19	27 68	11	38 10	21	43 94	25	17 23	16	32 66	19	38 51	20	29 46	21	40 29	10
July,	44 01	19	54 02	17	34 50	14	54 65	19	46 90	19	14 43	12	33 30	15	52 68	21	56 20	22	40 29	10
August,	37 55	23	40 60	20	36 74	17	35 17	15	39 73	21	27 50	18	42 84	20	35 43	19	40 70	21	32 24	15
September,	43 98	21	37 17	17	39 50	21	36 49	20	44 10	22	46 21	21	50 28	22	39 62	19	51 49	23	6 57	6
October,	45 47	24	49 2	21	37 98	23	42 50	23	43 94	25	43 72	23	40 18	26	42 70	24	41 52	23	34 30	23
November,	41 03	21	46 69	21	52 35	23	46 00	23	44 88	22	36 47	21	46 67	23	23 26	12	44 92	21	42 91	23
December,	44 95	22	35 23	11	22 33	14	43 74	23	32 63	20	33 00	20	37 53	21	36 63	20	45 50	23	46 71	25
Total,	\$395 65	200	\$411 18	168	\$358 98	172	\$400 47	185	\$377 46	193	\$313 94	172	\$394 73	195	\$360 61	174	\$431 34	200	\$323 67	158

No. 69.—NUMBER OF DAYS IN OPERATION DURING THE YEAR.
Highest Individual Earnings.

1888.	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
January,	\$42 58	25	\$57 46	25	\$45 30	25	\$42 84	25	\$44 88	25	\$33 12	25	\$48 47	25	\$45 56	25	\$45 22	25		
February,	42 24	21	74 64	21	47 08	21	49 30	21	45 30	21	45 24	21	63 32	21	50 22	21	60 66	21		
March,	69 20	27	63 00	27	59 60	27	67 00	27	61 56	27	68 16	27	70 16	27	62 88	24	58 80	25		
April,	31 36	15	45 04	23	57 60	23	55 16	23	53 68	23	53 63	23	47 66	22	43 39	23	51 52	23		
May,	54 72	26	52 20	28	60 48	28	61 92	28	59 55	28	46 52	19	48 10	22	58 32	27	47 24	25		
June,	47 04	26	36 48	26	48 32	26	45 44	26	43 64	26	46 08	26	48 00	26	44 80	26	45 12	26		
July,	39 63	22	43 52	25	47 04	25	47 68	25	48 32	25	41 16	25	37 12	25	44 16	25	43 08	25		
August,	34 53	20	45 12	26	43 32	26	51 28	26	50 56	26	43 72	22	46 88	24	44 88	24	51 52	26		
September,	45 12	25	50 24	25	33 92	19	44 80	25	45 76	25	26 80	15	27 60	15	38 34	21	43 72	25		
October,	32 63	18	43 20	25	50 88	25	51 84	25	48 00	24	46 08	24	46 72	24	51 04	25	49 32	25		
November,	52 70	18	41 14	24	50 66	24	41 14	24	43 52	24	41 54	24	37 06	23	48 74	24	39 97	21		
December,	41 14	20	37 74	20	40 23	20	41 48	20	48 98	20	41 14	20	36 80	20	38 42	20	38 76	20		
Total,	\$533 02	263	\$589 78	289	\$539 48	289	\$599 83	295	\$573 45	273	\$570 50	286	\$531 85	273	\$596 09	283	\$571 50	282	\$593 30	290

Lowest Individual Earnings.

1888.	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
January,	\$70 04	25	\$45 90	25	\$33 76	20	\$37 12	25	\$45 80	25	\$45 90	25	\$42 84	25	\$46 90	25	\$22 50	15	\$12 25	11
February,	71 14	21	54 74	21	49 64	21	42 50	21	45 20	21	47 00	21	45 90	21	47 68	21	23 60	15	22 65	16
March,	57 00	27	58 00	27	30 00	13	60 40	25	65 08	29	54 20	27	70 08	27	58 48	24	22 50	15	22 00	16
April,	37 64	23	43 24	22	51 83	23	45 76	23	47 88	22	52 02	22	54 19	24	56 43	23	21 00	14	23 00	15
May,	46 52	27	51 53	28	62 68	27	43 56	26	47 16	23	55 17	26	57 51	26	59 76	27	23 00	18	22 80	17
June,	39 04	26	35 52	26	47 68	26	43 92	26	44 33	21	47 76	25	48 40	26	47 63	26	22 65	16	21 00	14
July,	37 12	25	43 20	25	45 44	25	41 80	25	44 48	23	46 43	23	42 32	23	42 48	23	12 00	13	12 03	10
August,	33 28	25	43 52	24	48 32	26	43 26	5	42 64	24	33 21	19	47 63	23	40 09	25	12 00	10	22 75	17
September,	43 23	25	36 48	21	48 96	25	42 24	23	44 64	23	45 92	24	36 76	22	43 56	24	21 00	14	22 65	16
October,	36 80	26	50 24	23	48 48	25	42 56	21	43 44	21	46 61	25	49 44	22	42 96	24	22 75	17	12 50	13
November,	37 06	24	37 74	22	49 39	23	42 16	23	45 92	24	34 89	21	40 50	21	34 34	18	23 00	18	16 75	12
December,	35 36	20	45 72	20	42 51	20	38 50	20	37 43	20	39 12	19	40 12	20	25 68	18	23 25	19	12 50	10
Total,	\$544 28	294	\$545 86	284	\$533 74	274	\$526 72	283	\$554 78	279	\$548 34	277	\$575 74	283	\$551 09	278	\$249 75	189	\$222 85	167

No. 70.—NUMBER OF DAYS IN OPERATION DURING THE YEAR, 289½.
Highest Individual Earnings.

1888.	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
January,	\$53 07	25	\$50 09	27	\$65 88	25	\$40 94	23	\$54 62	26	\$63 10	24	\$68 11	25	\$65 55	26	\$58 92	23	\$56 85	18
February,	59 89	24	48 04	23	52 43	21	39 07	23	50 60	22	56 53	20	60 94	22	59 59	20	63 49	20	35 25	19
March,	36 24	24	56 82	25	61 55	20	8 17	5	52 47	17	63 85	23	64 65	23	52 19	20	64 42	23	35 75	21
April,	54 22	25	53 00	24	53 20	22	41 09	25	61 32	25	49 64	22	53 86	23	52 12	23	64 64	25	36 67	22
May,	58 75	25	49 65	24	54 24	23	37 14	24	52 57	24	55 94	26	55 63	26	54 12	25	86 57	26	36 94	21
June,	52 97	24	32 00	19	41 10	23	37 64	22	44 52	24	52 94	24	44 34	24	41 84	25	77 45	25	41 80	24
July,	47 97	23	32 32	20	40 94	21	35 12	20	45 69	22	45 64	23	44 07	23	45 87	22	59 20	22	41 70	24
August,	54 49	25	43 12	13	42 25	21	44 84	27	36 24	18	48 87	25	40 87	21	40 55	21	77 50	27	37 72	24
September,	43 04	19	87 87	16	34 24	19	32 14	20	41 79	19	40 74	20	40 35	20	31 12	17	58 34	22	34 72	20
October,	53 37	25	97 35	25	51 79	26	41 22	24	53 97	25	50 44	27	52 04	26	49 72	26	71 45	26	41 67	25
November,	54 42	25	88 77	25	44 89	24	39 55	23	41 32	25	42 02	23	43 42	24	42 64	24	75 74	25	45 09	24
December,	48 85	24	79 77	24	39 79	23	39 98	23	46 20	22	40 20	23	41 17	23	41 85	23	63 85	24	44 47	21
Total,	\$637 23	288	\$723 80	233	\$582 30	270	\$433 90	259	\$581 31	269	\$614 91	280	\$617 48	280	\$579 66	275	\$823 37	288	\$458 63	288

Lowest Individual Earnings.

January,	\$34 52	24	\$27 12	18	\$41 67	24	\$35 29	22	\$ 5 30	22	\$43 39	25	\$39 52	24	\$37 22	22	\$43 60	26	\$43 60	26
February,	36 65	17	22 35	13	41 60	23	30 82	22	30 82	22	29 25	23	39 02	21	42 32	23	35 13	23	35 16	23
March,	40 50	24	30 94	19	40 92	22	39 22	21	39 22	21	27 17	13	40 92	22	35 52	19	47 75	24	47 75	24
April,	33 17	20	43 65	25	37 55	24	35 85	23	35 86	23	31 69	19	38 95	23	35 54	22	51 49	25	51 50	25
May,	41 30	24	37 95	21	33 62	20	37 28	22	37 29	22	34 37	20	40 54	24	36 14	22	25 02	21	25 03	21
June,	35 90	22	37 24	23	38 57	22	24 37	18	24 37	18	34 72	23	37 27	21	3 50	2	25 02	21	25 03	21
July,	41 62	25	39 84	22	32 84	21	19 74	19	19 73	19	33 65	22	37 77	23	23 02	15	41 34	24	41 33	24
August,	35 61	23	40 67	27	32 92	24	23 24	21	23 23	21	39 54	26	35 60	22	40 87	27	51 88	27	51 89	27
September,	32 22	16	31 62	19	20 67	13	24 12	18	24 12	18	28 00	19	29 16	20	24 05	17	40 86	22	40 86	22
October,	40 32	23	35 54	26	42 25	25	30 54	23	30 55	23	36 12	23	36 74	23	40 37	25	52 12	27	52 12	27
November,	39 37	22	41 54	25	45 44	25	27 63	21	27 62	21	33 92	24	27 04	11	39 12	22	52 21	25	52 21	25
December,	29 73	23	45 79	23	46 82	24	31 73	22	31 74	22	39 77	22	42 52	21	42 62	23	43 49	22	43 48	22
Total,	\$443 38	263	\$434 25	261	\$454 87	267	\$339 84	252	\$359 85	252	\$414 59	262	\$445 05	258	\$400 29	239	\$509 94	291	\$509 96	291

No. 71.—NUMBER OF DAYS IN OPERATION DURING THE YEAR, 295.
Highest Individual Earnings.

1888.	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
January.	\$51 02	26	\$56 30	26	\$54 50	26	\$47 60	26	\$47 25	26	\$47 12	26	\$47 25	26	\$45 24	26	\$45 37	26	\$45 37	26
February.	62 20	24	46 00	21	47 99	24	48 37	22	47 75	24	47 87	24	47 75	24	42 37	24	21 37	13	21 37	13
March.	48 62	25	40 45	21	54 99	27	52 99	27	54 99	27	48 87	27	48 75	27	50 87	27	50 87	27	50 87	27
April.	47 87	23	47 32	21	46 75	23	45 24	23	46 25	23	43 12	23	46 25	23	46 87	23	46 74	23	46 74	23
May.	47 52	23	45 17	23	39 50	23	38 37	23	39 50	23	34 87	23	34 87	23	38 62	23	38 50	23	38 50	23
June.	41 47	18	32 55	18	33 12	18	30 62	18	33 12	18	30 00	18	30 12	18	33 37	18	33 37	18	33 37	18
July.	62 99	25	43 39	25	44 62	25	42 74	25	44 62	25	41 99	25	41 87	25	39 12	25	39 12	25	39 12	25
August.	61 82	25	41 82	25	44 87	26	39 62	26	44 87	26	38 12	26	38 12	26	35 99	26	36 12	26	36 12	26
September.	64 57	25	51 40	25	34 25	25	42 49	25	34 25	25	44 37	25	44 37	25	43 37	25	43 24	25	43 24	25
October.	79 80	27	50 79	26	45 37	27	51 52	27	45 37	27	48 62	27	48 62	27	48 74	27	42 62	27	42 62	27
November.	48 44	24	59 72	23	45 75	26	47 00	26	45 75	26	43 87	26	43 87	26	43 87	26	49 24	26	49 37	26
December.	70 87	25	50 40	19	58 49	25	55 63	25	58 49	25	44 75	25	44 75	25	44 62	25	48 25	25	48 25	25
Total.	\$687 79	290	\$538 31	273	\$550 20	295	\$540 06	293	\$550 20	295	\$516 57	295	\$516 46	295	\$516 05	295	\$494 94	281	\$494 94	281

Lowest Individual Earnings.

1888.	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
January.	\$47 87	26	\$42 37	26	\$40 62	26	\$40 62	26	\$40 50	26	\$42 62	25	\$36 75	25	\$5 87	4	...	...	\$32 87	26
February.	40 87	24	45 87	24	38 99	24	38 99	24	38 99	24	40 87	24	38 12	24	45 62	27	...	...	32 87	23
March.	45 24	27	38 37	27	38 37	27	38 37	27	38 37	27	49 99	27	46 49	27	...	...	...	...	46 24	27
April.	39 00	23	41 37	23	31 75	23	31 75	23	31 75	23	29 99	19	39 37	23	39 87	23	...	...	37 12	23
May.	38 12	23	35 62	23	35 62	23	35 62	23	35 49	23	31 49	23	34 12	23	34 25	23	...	...	30 62	23
June.	29 99	17	31 37	18	28 24	18	28 24	18	28 12	18	25 87	18	28 49	18	34 25	23	...	...	25 75	18
July.	40 12	25	31 37	25	38 87	25	38 87	25	38 99	25	33 87	25	35 99	25	36 12	25	...	...	24 87	20
August.	35 87	20	32 12	26	40 37	26	40 37	26	40 37	26	39 99	26	32 87	21	34 50	25	...	...	33 24	24
September.	40 49	23	41 87	25	40 62	25	40 62	25	40 50	25	39 12	25	33 25	24	33 12	24	...	...	32 74	24
October.	50 87	27	47 37	27	46 87	27	46 87	27	46 87	27	43 49	27	40 37	26	29 50	20	...	...	38 87	26
November.	41 74	25	47 87	26	46 12	26	46 12	26	46 12	26	38 74	22	37 25	24	19 62	13	...	...	39 00	25
December.	47 24	25	53 99	25	49 50	25	49 50	25	49 50	25	21 75	11	42 37	25	38 87	22	...	...	37 99	25
Total.	\$403 42	238	\$498 31	294	\$475 94	295	\$436 79	272	\$475 56	295	\$445 41	285	\$415 57	295	\$316 09	224	\$359 45	242	\$412 18	284

ANTHRACITE MINERS' WAGES.
No. 72.—NUMBER OF DAYS IN OPERATION DURING THE YEAR, 255.
Highest Individual Earnings.

	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
1888.																				
January,	\$78 27	23	\$30 87	22	\$67 72	22	\$45 81	20	\$79 83	23	\$47 64	22	\$54 21	23	\$50 62	22	\$93 39	23	\$73 49	23
February,	71 55	23	54 54	23	62 94	23	61 65	21	98 36	23	51 03	23	64 44	23	63 13	22	103 38	23	53 25	22
March,	83 44	21	50 70	20	63 63	21	51 33	19	78 81	21	52 11	21	60 57	21	49 92	21	95 95	21	64 11	21
April,	78 60	12	51 81	12	28 38	11	27 24	11	34 47	12	19 04	12	52 05	12	33 78	12	62 79	12	37 02	12
May,	83 94	17	78 24	17	50 46	17	23 64	10	44 64	17	28 80	16	64 98	17	37 23	16	60 54	17	50 07	17
June,	97 83	16	77 40	17	46 20	17	30 75	17	47 13	16	38 01	17	34 04	17	36 12	17	66 81	17	44 43	17
July,	98 82	24	73 44	24	56 46	24	45 81	23	81 30	24	57 06	23	46 95	24	57 63	24	82 56	21	54 84	24
August,	60 15	24	43 38	24	42 15	24	43 95	23	55 38	23	49 38	23	31 63	23	46 95	23	78 00	24	44 79	23
September,	78 23	16	53 23	17	41 70	16	28 50	16	35 76	14	45 30	16	28 44	16	33 03	16	57 18	15	42 00	16
October,	22 74	26	63 97	26	73 02	26	52 65	26	91 92	27	73 89	27	69 06	27	67 98	27	128 73	27	74 46	27
November,	32 55	25	48 45	25	77 25	23	62 25	24	91 20	25	85 86	24	64 11	23	67 98	25	98 73	24	85 60	25
December,	50 22	24	42 90	25	91 62	25	57 39	23	98 58	25	77 70	25	63 54	24	70 14	25	87 21	22	92 28	25
Total,	\$841 44	251	\$670 98	252	\$701 53	249	\$530 97	234	\$832 38	250	\$625 82	250	\$634 02	250	\$607 21	250	\$1 015 27	246	\$717 34	252

Lowest Individual Earnings.

January,	\$37 23	23	\$33 81	20	\$46 83	22	\$27 42	22	\$44 16	23	\$48 45	23	\$40 59	21	\$53 25	23	\$31 89	21	\$39 27	23
February,	34 41	23	18 27	15	34 26	18	23 46	22	28 98	21	38 61	19	29 83	18	44 70	23	24 18	16	40 74	23
March,	46 95	21	27 03	18	33 70	21	33 54	20	22 26	14	32 28	19	48 75	21	34 74	21	68 34	21	40 80	21
April,	16 97	12	17 10	12	16 92	11	14 79	12	27 30	12	14 43	11	18 83	12	26 94	12	27 45	9	25 41	12
May,	20 82	15	24 48	16	20 79	14	25 92	13	27 21	14	24 42	15	32 16	17	26 46	17	28 11	16	24 87	16
June,	26 68	15	24 99	17	25 41	17	30 60	15	32 55	17	25 26	17	32 97	16	29 94	16	20 76	14	19 41	14
July,	25 71	19	27 57	18	37 95	24	46 11	22	41 73	23	38 31	23	48 27	24	31 10	23	25 86	16	43 11	24
August,	31 89	22	29 23	24	27 00	21	33 39	22	33 96	24	32 58	23	37 71	24	44 31	22	20 34	19	23 79	20
September,	13 41	13	25 08	16	16 98	8	26 85	16	32 16	16	23 10	15	33 24	16	21 93	15	18 78	16	43 11	24
October,	33 42	23	45 15	26	47 25	25	52 38	25	52 50	25	51 75	27	65 49	27	54 48	27	23 43	22	47 70	27
November,	38 64	23	32 86	19	35 76	22	31 53	24	45 33	24	35 13	23	18 81	11	51 90	25	33 81	17	54 78	25
December,	46 83	25	43 09	23	38 46	23	44 79	25	54 33	24	40 35	22	46 50	24	56 04	25	33 19	21	42 60	22
Total,	\$372 96	234	\$348 73	224	\$330 31	226	\$393 78	239	\$442 47	237	\$401 67	237	\$453 15	231	\$479 43	249	\$371 19	208	\$431 40	243

No. 73.—NUMBER OF DAYS IN OPERATION DURING THE YEAR, 238.
Highest Individual Earnings.

	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
1888.																				
January,	\$2 17	19.8	\$6 92	18.9	\$72 65	18.3	\$43 75	19.8	\$39 29	19.8	\$71 05	18.9	\$37 06	18	\$3 10	18	\$7 93	19.8	\$19 94	15.7
February,	48 33	16.9	61 96	15.3	41 06	15.3	60 91	16.2	39 04	16.2	48 36	15.6	38 50	16.6	51 27	12.6	49 70	17.5	44 10	14
March,	44 35	9.9	49 40	13	68 54	15.3	48 88	13	52 85	14.9	52 27	14.4	44 40	14.8	42 00	14	36 40	14.8	20 23	8.5
April,	51 74	13	47 58	13	84 91	12	25 48	13	19 92	12	29 78	11.5	34 71	13	21 96	11.5	29 64	13	16 31	7
May,	83 49	23	86 71	23	78 40	20	79 98	21.5	62 33	23	72 67	21.5	83 74	22.5	74 47	22.5	73 14	23	66 88	22
June,	77 00	20	79 33	20.5	74 65	21.7	87 11	21.5	80 04	23	54 39	21	60 60	20	54 40	20	78 33	21	60 30	19
July,	117 84	24	79 87	24.5	91 44	24	77 66	23	71 53	23	79 80	20	64 35	22.5	71 19	21.7	76 75	25	55 67	19
August,	90 25	25	105 25	25	84 00	24	72 90	25	72 54	26	61 25	25	56 64	16	58 38	21	69 11	20.5	53 92	16
September,	79 67	15.5	66 93	16.5	46 11	11.5	72 10	17.5	61 44	18	72 58	19	66 16	18.5	43 61	17	60 31	18.5	52 67	17.5
October,	73 83	23	75 48	23.5	102 50	25	104 76	27	82 64	26	65 52	26	72 72	24	89 50	25	77 22	26	48 93	21
November,	61 25	22.6	44 25	20.3	43 30	15	55 12	16.8	72 93	22.1	45 84	19.6	63 42	18.2	45 61	16.3	61 56	18	61 53	18.7
December,	82 44	18	39 58	18	41 31	15.3	52 92	18	65 20	19.8	54 64	19.8	61 08	18.4	47 44	13.5	48 06	18	52 26	14.4
Total,	\$882 66	230.7	\$333 32	233.5	\$732 07	217.4	\$781 57	232.3	\$772 75	243.8	\$708 15	222.3	\$700 38	222.5	\$752 36	213.1	\$718 15	235.1	\$782 74	192.8

Lowest Individual Earnings.

January,	\$17 47	16.2	\$33 64	12.6	\$69 87	19.3	\$63 94	19.8	\$74 44	19.8	\$9 45	15.7	\$14 90	18	\$4 64	19.8	\$18 27	18.4	\$5 76	16.2
February,	60 07	13.5	78 08	32.1	41 46	15.3	45 07	16.6	49 73	16.2	20 93	12.1	13 29	7.6	22 24	10.8	35 94	10.8	26 39	16.6
March,	37 18	13	29 52	14.4	57 40	14	46 15	13	19 34	11.7	21 70	11.7	46 91	14.4	33 43	15.7	33 55	14.4	39 85	16.2
April,	84 06	21.5	30 62	12.5	33 84	12	29 40	12	35 49	13	32 76	12	27 48	12	34 58	13	23 40	13	34 45	16.2
May,	47 15	20.5	91 30	22	55 44	22	66 90	22.5	56 37	22.5	51 48	22	56 76	22	60 25	22	56 12	23	38 25	22.5
June,	31 95	17	84 92	22	54 81	21	52 00	20	63 81	17.2	68 64	22	51 80	20	61 74	21	61 00	21	64 26	21
July,	69 07	22.5	74 80	22	32 89	13	81 48	24	75 12	24	85 68	22	34 15	13	60 72	24	47 35	20.5	41 40	18
August,	34 80	12	32 34	11	78 50	25	87 22	21.5	47 36	20.5	67 39	23	74 97	23.5	32 11	13	60 28	22	52 36	22
September,	82 11	25.5	7 98	3	49 66	16.5	56 62	19	50 05	17.5	56 95	17	44 46	18	6 78	3	36 90	18	20 97	17.5
October,	51 41	16.8	86 84	26	75 21	23	85 60	26.5	56 50	25	72 38	23.5	70 25	25	89 91	24.5	51 60	24	43 00	25
November,	49 50	18.5	39 46	18.5	40 36	17.7	40 54	20.6	39 73	19.1	39 80	16.8	41 89	14.2	37 68	20.6	43 66	20.6	41 85	18.6
December,	32 37	13	27 62	8.5	52 99	18.4	36 06	18.4	69 29	19.3	48 34	15.8	67 32	18	57 04	18.4	52 26	16.6	20 52	17.1
Total,	\$27 15	210	\$17 12	204.6	\$142 43	217.2	\$693 98	236.9	\$37 23	236.7	\$615 50	215.6	\$584 21	207.7	\$351 15	205.9	\$510 33	221.3	\$761 06	223.7

No. 74—NUMBER OF DAYS IN OPERATION DURING THE YEAR 219.
Highest Individual Earnings.

	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
1888																				
January,	\$43 94	10	\$65 69	20	\$77 63	19	\$71 66	22	\$38 87	20	\$84 12	21	\$75 52	19	\$75 50	19	\$71 65	22	\$74 35	19
February,	60 82	16	60 83	15	45 30	15	47 48	13	38 15	15	33 75	14	40 33	13	40 32	13	51 47	15	48 85	13
March,	110 34	26	110 33	26	82 26	23	94 89	23	94 80	23	45 37	23	57 31	21	57 32	21	64 45	25	56 36	23
April,	8 13	3	42 18	15	42 60	11	64 23	11	61 23	11	20 55	20	47 01	12	47 02	12	15 10	10	15 01	5
May,	63 90	18	93 21	25	50 79	15	31 61	11	31 64	11	98 59	24	88 43	23	89 71	24	83 27	26	49 75	12
June,	72 99	20	27 94	17	73 56	22	39 63	14	39 63	14	63 64	22	71 76	26	71 76	26	89 90	21	50 85	16
July,	25 82	9	62 11	12	93 17	25	67 90	22	67 90	22	63 15	15	76 94	23	76 94	23	21 81	8	49 27	20
August,	100 29	23	100 30	23	93 19	27	55 69	27	7 80	1	96 91	25	70 54	19	70 55	19	45 48	20	53 56	22
September,	104 31	25	104 31	25	70 46	20	83 47	25	83 43	25	86 77	21	87 43	25	85 42	24	80 33	25	54 71	19
October,	93 18	24	93 19	24	73 81	22	96 02	24	96 03	24	92 61	19	72 66	19	72 67	19	83 72	24	90 23	22
November,	97 39	23	97 31	23	85 23	25	67 94	13	63 10	17	40 62	13	83 30	22	83 28	22	89 56	23	70 23	21
December,	43 31	9	52 38	13	39 20	13	55 24	16	24 75	7	. . .	. . .	55 35	10	35 34	10	42 89	10	35 41	11
Total,	\$825 33	206	\$903 78	239	\$832 20	237	\$777 70	227	\$646 33	190	\$726 08	214	\$806 63	242	\$865 83	242	\$745 63	229	\$648 63	203

Lowest Individual Earnings.

	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
January,	\$45 79	23	\$33 68	17	\$40 93	20	\$40 93	20	\$25 63	13	\$40 53	20	\$40 53	20	\$27 52	16	\$40 47	19	\$10 40	11
February,	54 33	19	38 15	15	22 48	9	22 48	9	8 00	4	22 63	12	22 63	12	10 16	6	25 12	16	19 78	12
March,	53 13	14	76 12	24	52 61	18	52 61	18	11 98	9	56 01	24	56 00	24	60 64	24	53 19	23	59 65	22
April,	65 19	8	23 59	12	6 35	4	6 35	4	51 98	22	25 98	20	23 98	20	13 47	9	25 79	12	8 39	1
May,	35 69	19	25 59	26	40 79	20	40 89	20	57 56	20	59 40	21	59 40	21	29 83	20	46 56	23	38 74	21
June,	65 45	21	1 98	2	43 86	21	43 85	21	36 74	20	44 22	23	44 23	23	78 73	28	43 28	24	27 41	21
July,	51 81	23	66 67	23	56 67	24	53 67	24	57 17	23	49 30	24	49 30	24	86 08	22	46 65	23	62 53	23
August,	55 08	25	54 65	24	60 07	25	60 07	25	53 92	25	57 17	23	57 17	23	38 33	25	57 67	26	50 36	22
September,	33 62	19	49 05	24	66 81	25	63 81	25	53 24	25	53 44	19	53 44	19	43 57	19	64 22	25	49 81	23
October,	47 70	23	85 73	24	63 40	24	63 40	24	55 02	23	33 35	18	36 35	18	50 20	24	60 70	24	47 12	24
November,	47 00	23	53 50	21	61 24	23	61 24	23	41 21	21	44 35	22	44 35	22	41 86	22	41 19	21	37 13	22
December,	33 96	17	17 58	7	29 55	15	29 55	15	26 42	11	32 19	16	32 19	16	11 17	9	22 83	12	38 39	17
Total,	\$591 80	234	\$526 29	219	\$544 76	228	\$544 76	228	\$429 70	193	\$522 57	242	\$522 57	242	\$491 66	224	\$530 67	248	\$440 76	228

No. 75.—NUMBER OF DAYS IN OPERATION DURING THE YEAR, 243.

Highest Individual Earnings.

	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
1888																				
January,	\$67 20	21	\$40 52	12.7	\$59 09	19	\$44 86	13.8	53 80	20	\$9 03	22	\$61 74	21	\$73 50	21	\$33 00	20	\$36 38	17
February,	77 97	16.7	29 59	11	51 36	16	31 08	16	27 00	13.5	53 28	18	55 30	17.5	34 00	17	53 82	18	62 82	18
March,	37 95	15	47 50	25	52 56	18	66 06	18	66 50	19	46 81	13.5	44 82	17	32 00	11	51 00	17	17 22	10.5
April,	37 50	15	80 31	19.5	79 12	23	52 00	20	70 20	22.5	67 98	22	65 93	23	43 80	20	47 96	22	50 70	19.5
May,	69 74	22	71 39	21	73 04	22	68 77	23	64 86	23	76 40	22.5	69 73	19	81 12	24	43 94	13	72 60	22
June,	85 89	21	82 11	21	81 84	22	70 19	21.5	70 98	21	60 00	20	64 44	18	45 78	14	65 31	21	51 24	21
July,	75 46	22	79 22	23.3	62 40	21	74 50	25	71 75	25	72 96	24.5	70 32	24	43 13	19	79 83	21.5	74 50	25
August,	62 26	22	39 70	10	57 12	21	76 00	25	79 50	25	53 90	22	58 86	18	74 74	26	56 28	21	62 40	16
September,	73 30	16	86 77	26.7	56 10	15	45 00	15	42 00	14	38 64	12	52 40	16	51 09	13	40 32	16	36 00	18
October,	127 14	26	68 88	26	38 82	14	96 00	21	56 75	17.5	61 09	17	57 20	22	39 78	13	51 27	27	89 70	30
November,	46 00	23	58 08	16	49 20	15	37 08	12	84 75	25	26 39	13	27 12	12	72 09	26.9	77 52	24	52 80	16
December,	48 62	21 8	48 37	22.5	51 80	20	71 30	23	84 87	23	47 74	15.4	81 19	23	78 90	21.5	60 00	20	50 70	19.5
Total,	\$809 03	244.5	\$31 94	231.7	\$710 45	229	\$731 84	235.8	\$766 96	248.5	\$677 27	231.9	\$703 05	230.5	\$69 93	231.4	\$693 25	243.5	\$657 06	232.5

Lowest Individual Earnings.

	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
January,	\$4 02	14.2	\$51 81	19.2	\$3 04	21	55 20	10	\$44 31	21.7	\$1 80	9.9	\$57 42	13	\$39 64	21	\$30 24	14	\$27 74	19
February,	56 70	18	31 00	15.5	25 27	9.5	41 82	17	57 24	18	30 00	15	23 67	9	30 00	15	22 77	9	31 96	17
March,	48 19	23	45 04	16	18 42	6	52 53	17	55 62	18	32 03	16	56 52	18	31 03	17	35 23	13	31 40	16
April,	50 76	18	53 88	23	57 20	22	47 46	21.5	50 76	23.5	68 03	23	46 20	22	53 80	20	51 75	25	38 42	17
May,	38 64	14	72 40	20	24 88	8	4 89	3	72 60	22	40 01	22	24 09	11	62 56	23	46 20	22	45 37	21.2
June,	70 75	25	59 01	21	21 60	10	55 66	22	28 32	12	50 82	21	47 69	13	68 64	22	13 59	9	40 71	21
July,	67 60	26	72 38	22.5	66 01	23.5	59 76	24	57 50	23	61 56	23.5	65 50	25	3 08	2	46 32	24	50 88	24
August,	21 00	10.5	57 72	18.5	60 24	21	57 12	21	52 00	26	62 26	22	67 93	22	54 81	21	63 84	24	60 03	23
September,	19 00	9.1	16 41	6.7	69 66	18	33 54	14	41 10	18	35 91	7	31 46	13	44 20	17	33 44	11	20 00	10
October,	77 50	25	52 00	26	72 54	26	68 31	23.5	81 81	27	75 25	25	63 00	20	50 10	21.6	40 00	20	44 18	23.5
November,	68 20	22	55 41	24	81 75	25	70 75	25	69 30	21.6	74 10	19	42 09	23	29 00	10	49 70	14	57 84	24
December,	51 00	20	61 86	23	46 25	18.5	77 23	23	48 00	24	29 16	18	68 61	24	55 22	22	32 00	16	68 77	23
Total,	\$616 36	224.8	\$333 98	235.4	\$614 86	211.5	\$627 32	224	\$661 56	254.8	\$578 93	221.4	\$91 26	224	\$336 05	211.6	\$605 08	201	\$520 33	258.7

No. 76.—NUMBER OF DAYS IN OPERATION DURING THE YEAR, 233.
Highest Individual Earnings.

1888.	1ST MAN.		2D MAN.		3 MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
January,	\$80 89	22	\$55 73	23	\$81 61	25	\$54 73	18	\$70 07	22	\$72 27	23	\$72 27	23	\$63 43	23	\$26 28	12	\$67 78	19
February,	64 70	19	37 37	18	61 30	18	32 43	21	58 52	17	51 03	17	51 03	17	79 53	18			20 67	12
March,	82 42	23	93 25	25	31 30	10 ¹ / ₂	93 26	25	8 08	6	64 99	23	65 00	23	76 58	21	65 44	24	58 05	23
April,	81 21	24	87 75	23	68 43	22 ¹ / ₂	87 75	23	26 36	21 ¹ / ₂	47 75	20	47 75	20	48 52	21	84 51	24	59 38	23
May,	71 57	22	84 75	23	63 74	20	84 83	23	20 86	17 ³ / ₄	43 81	21	43 80	21	52 96	21	79 30	23	64 88	22
June,	60 68	22	84 46	24	61 09	21	84 45	24	67 06	22	48 08	22	48 05	22	50 23	23	59 71	22	58 21	24
July,	5 69	1	82 61	23	64 14	20 ¹ / ₂	82 61	23	63 95	20	47 72	20	47 72	20	64 11	22	62 39	22	53 79	19
August,	75 88	24	88 36	26	58 92	24	88 35	26	79 81	24	53 90	22	53 90	22	46 03	22	46 60	13	86 97	24
September,	77 07	24	83 94	25	63 89	25	83 95	25	92 16	23	56 59	23	56 60	23	55 71	20	28 64	11	77 75	21
October,	87 59	24	81 42	24	78 59	24	37 44	10	89 73	22	73 90	24	73 90	24	56 47	19	67 25	22	25 08	19
November,	85 99	24	23 40	12	85 43	24	23 41	22	97 29	25	104 78	24	104 78	24	70 62	21	33 33	20	25 08	19
December,	64 89	17	26 85	15	68 69	18	4 03	2	37 11	16	74 05	15	74 05	15	44 60	14	45 77	19	54 89	9
Total,	\$838 63	246	\$834 94	261	\$787 43	252 ¹ / ₂	\$762 25	242	\$711 00	236	\$738 87	254	\$738 85	254	\$709 69	245	\$604 22	212	\$666 83	237

Lowest Individual Earnings.

January,	\$62 13	22	\$59 63	22	\$63 36	23	\$30 45	20	\$31 29	15	\$46 90	23	\$26 81	18	\$26 81	18	\$43 04	25	\$43 03	25
February,	70 55	18	30 65	16	25 20	10	31 28	12	33 33	19	24 09	18	15 80	12	14 80	12	27 61	18	27 61	18
March,	55 40	17	53 18	22	45 65	22			57 73	21			55 02	22	55 02	22	34 14	20	34 14	20
April,	4) 52	21	47 55	23	35 27	21	26 62	10	36 51	21	34 72	22 ¹ / ₂	51 98	22	51 98	22	43 70	20	43 69	20
May,	40 81	21	33 83	20	42 56	20	77 07	22	39 53	20 ³ / ₄	36 32	19 ¹ / ₂	31 27	22	31 27	22	44 51	19	44 52	19
June,	43 61	23	43 26	24	43 36	23	71 90	22	35 72	23	40 02	23	7 27	8	7 27	8				
July,	50 25	20	59 56	22	51 86	21	57 68	19	53 69	21	52 58	22	30 37	20	30 37	20	23 89	18	23 89	18
August,	53 85	23	46 91	12	53 91	24	57 43	21	44 94	22	33 41	18	33 95	24	33 95	24	22 47	20	22 43	20
September,	53 14	21	76 16	22	57 15	22	67 85	23	52 87	20	59 51	23	38 29	19	38 28	19	26 80	21	26 28	21
October,	57 03	19	72 25	24	50 53	22	8 37	8	56 73	23	53 81	23 ³ / ₄	67 45	24	67 44	24	41 91	12	41 90	12
November,	64 55	24	70 43	24	49 55	19	10 37	24 ¹ / ₂	50 93	22	48 93	23 ³ / ₄	40 13	24	40 13	24	37 57	24	37 55	24
December,	51 16	14	46 45	10	41 17	14	2 12	14	15 09	10	31 76	16	25 70	15	25 70	15	21 64	15	21 64	15
Total,	\$644 03	243	\$649 93	241	\$560 61	241	\$433 59	195 ¹ / ₂	\$508 42	238 ¹ / ₂	\$437 10	231 ¹ / ₂	\$424 04	230	\$423 02	230	\$368 73	212	\$366 73	212

No. 77.—NUMBER OF DAYS IN OPERATION DURING THE YEAR, 213.
Highest Individual Earnings.

1888.	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
January—Not working.																				
February—Not working.																				
March,	\$91 00	22.6	\$93 00	22.6	\$92 00	22.6	\$85 00	22.6	\$77 00	22.6	\$71 00	22.6	\$70 00	22.6	\$63 00	22.6	\$62 00	22.6	\$61 00	22.6
April,	143 00	22½	136 00	22½	115 00	22½	114 00	22½	99 00	22½	83 00	22½	65 00	22½	64 00	22½	63 00	22½	62 00	22½
May,	151 00	25.4	143 00	25.4	142 00	25.4	108 00	25.4	104 00	25.4	85 00	25.4	70 00	25.4	70 00	25.4	67 00	25.4	66 00	25.4
June,	105 00	25.8	91 00	25.8	75 00	25.8	74 00	25.8	73 00	25.8	72 00	25.8	71 00	25.8	70 00	25.8	69 00	25.8	68 00	25.8
July,	107 00	23½	100 00	23½	99 00	23½	78 00	23½	72 00	23½	71 00	23½	70 00	23½	69 00	23½	68 00	23½	67 00	23½
August,	100 00	25½	99 00	25½	96 00	25½	92 00	25½	90 00	25½	89 00	25½	80 00	25½	72 00	25½	71 00	25½	70 00	25½
September,	112 00	23	111 00	23	91 00	23	86 00	23	75 00	23	74 00	23	70 00	23	69 00	23	68 00	23	67 00	23
October,	112 00	26.5	111 00	26.5	93 00	26.5	83 00	26.5	82 00	26.5	81 00	26.5	80 00	26.5	79 00	26.5	69 00	26.5	68 00	26.5
November,	78 00	17.5	77 00	17.5	65 00	17.5	63 00	17.5	57 00	17.5	56 00	17.5	55 00	17.5	54 00	17.5	53 00	17.5	52 00	17.5
December—Not working.																				
Total,	\$1,002 00	213	\$961 00	213	\$871 00	213	\$783 00	213	\$729 00	213	\$687 00	213	\$631 00	213	\$608 00	213	\$590 00	213	\$581 00	213

Lowest Individual Earnings.

1888.	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
January—Not working.																				
February—Not working.																				
March,	\$60 00	22.6	\$59 00	22.6	\$50 00	22.6	\$49 00	22.6	\$48 00	22.6	\$47 00	22.6	\$46 00	22.6	\$45 00	22.6	\$44 00	22.6	\$43 00	22.6
April,	61 00	22½	60 00	22½	59 00	22½	58 00	22½	51 00	22½	50 00	22½	49 00	22½	48 00	22½	47 00	22½	46 00	22½
May,	65 00	25.4	63 00	25.4	60 00	25.4	59 00	25.4	55 00	25.4	51 00	25.4	44 00	25.4	42 00	25.4	41 00	25.4	38 00	25.4
June,	64 00	25.8	61 00	25.8	58 00	25.8	57 00	25.8	50 00	25.8	49 00	25.8	47 00	25.8	46 00	25.8	42 00	25.8	41 00	25.8
July,	63 00	23½	62 00	23½	61 00	23½	56 00	23½	51 00	23½	50 00	23½	48 00	23½	46 00	23½	45 00	23½	44 00	23½
August,	69 00	25½	68 00	25½	67 00	25½	66 00	25½	65 00	25½	64 00	25½	60 00	25½	58 00	25½	57 00	25½	50 00	25½
September,	63 00	23	62 00	23	59 00	23	58 00	23	57 00	23	56 00	23	55 00	23	54 00	23	46 00	23	45 00	23
October,	67 00	26.5	66 00	26.5	65 00	26.5	61 00	26.5	60 00	26.5	58 00	26.5	56 00	26.5	49 00	26.5	48 00	26.5	47 00	26.5
November,	44 00	17.5	43 00	17.5	42 00	17.5	40 00	17.5	37 00	17.5	36 00	17.5	35 00	17.5	34 00	17.5	33 00	17.5	31 00	17.5
December—Not working.																				
Total,	\$556 00	213	\$544 00	213	\$521 00	213	\$507 00	213	\$474 00	213	\$461 00	213	\$440 00	213	\$422 00	213	\$403 00	213	\$385 00	213

No. 78.—NUMBER OF DAYS IN OPERATION DURING THE YEAR, 246 8-10.
Highest Individual Earnings.

	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
1888.																				
January,	\$81 76	19.3	\$49 79	20.4	\$83 32	19.3	\$47 80	20.4	\$93 78	19.3	\$78 31	19.3	\$54 24	20.6	\$72 47	20.6	\$55 49	20.4	\$82 84	19.3
February,	51 50	10.7	56 73	10.8	56 67	10.7	56 73	10.8	40 63	10.7	68 04	10.7	32 27	11.7	30 40	11.7	40 81	10.8	55 25	10.7
March,	67 34	21.5	113 40	22.8	59 11	21.5	84 23	22.8	88 14	21.5	82 05	21.5	93 36	20.8	46 38	20.8	53 80	22.8	21 90	21.5
April,	97 42	22.5	96 15	21.8	78 74	22.5	93 21	21.8	81 78	22.5	76 18	22.5	101 80	22.5	47 53	22.5	54 98	21.8	52 80	22.5
May,	100 05	22.7	99 95	22.8	86 49	22.7	99 93	22.8	105 37	22.7	89 72	22.7	125 66	23.3	108 34	23.3	61 68	22.8	59 86	22.7
June,	99 53	16.9	92 35	18	72 08	16.9	92 37	18	54 66	16.9	70 40	16.9	69 94	18.5	59 33	18.5	55 92	18	64 38	16.9
July,	60 82	17	82 90	18.1	77 51	17	85 91	18.1	64 82	17	81 60	17	98 84	18.4	50 03	18.4	79 40	18.1	57 50	17
August,	81 76	24.3	72 63	24.8	73 45	24.3	72 63	24.8	59 17	24.3	77 80	24.3	65 56	21.5	128 66	21.5	81 36	24.8	83 02	24.3
September,	80 87	19.1	77 07	25.1	59 97	19.1	77 07	25.1	67 06	19.1	56 18	19.1	58 87	23.3	73 33	23.3	78 91	25.1	45 38	19.1
October,	85 58	24.5	81 91	25.9	86 14	24.5	81 91	25.9	69 43	24.5	65 52	24.5	70 65	27.1	79 04	27.1	78 30	25.9	96 46	24.5
November,	72 14	15.8	88 22	24	60 02	15.8	88 22	24	53 26	15.8	91 36	15.8	72 98	23.9	103 33	23.9	80 81	24	49 87	15.8
December,	80 14	16.1	75 97	22.1	46 17	16.1	75 97	22.1	57 94	16.1	45 00	16.1	53 52	21.6	68 70	21.6	76 90	21.1	62 50	16.1
Total,	\$958 91	230.5	\$987 07	256.6	\$869 87	230.5	\$955 98	256.6	\$846 04	230.5	\$831 56	230.5	\$897 69	253.4	\$867 54	253.4	\$828 36	256.6	\$711 26	230.5

Lowest Individual Earnings.

January,	\$42 27	20.6	\$38 41	19.3	\$41 76	19.3	\$40 16	19.3	\$46 35	19.3	\$46 36	19.3	\$40 73	20.6	\$32 81	20.6	\$32 80	20.6	\$19 85	20.6
February,	17 51	11.7	19 51	10.7	27 22	10.7	21 11	10.7	24 94	10.7	25 25	10.7	41 23	11.7	20 07	11.7	20 06	11.7	30 77	20.8
March,	30 38	20.8	23 31	21.5	28 85	21.5	30 44	21.5	38 07	21.5	23 30	21.5	42 41	20.8	43 40	20.8	45 15	20.8	87 03	22.5
April,	31 70	22.5	31 87	22.5	37 58	22.5	43 52	22.5	40 87	22.5	37 35	22.5	42 41	22.5	48 19	22.5	48 21	22.5	41 38	23.3
May,	37 54	23.3	28 83	22.7	26 13	22.7	24 58	22.7	33 87	22.7	38 61	22.7	44 02	23.3	56 78	23.3	64 34	23.3	29 16	18.5
June,	28 47	18.5	37 97	16.9	34 48	16.9	40 59	16.9	36 09	16.9	46 47	16.9	35 81	18.5	48 87	18.5	43 73	18.5	33 33	18.4
July,	35 61	18.4	27 28	17	26 45	17	27 61	17	53 77	17	46 12	17	43 67	18.4	23 87	18.4	23 38	18.4	53 06	21.5
August,	31 27	21.5	36 72	24.3	38 73	24.3	43 95	24.3	49 79	24.3	47 29	24.3	49 29	21.5	51 09	21.5	51 10	21.5	51 80	23.3
September,	35 09	23.3	31 47	19.1	42 81	19.1	47 32	19.1	10 29	19.1	31 85	19.1	45 49	23.3	50 17	23.3	50 17	23.3	61 01	27.1
October,	46 86	27.1	51 29	24.5	43 56	24.5	38 57	24.5	40 01	24.5	50 95	24.5	49 91	27.1	50 90	27.1	50 91	27.1	59 70	23.9
November,	43 54	22.9	26 25	15.8	31 68	15.8	32 18	15.8	31 76	15.8	31 20	15.8	48 94	23.9	50 68	23.9	50 69	23.9	52 53	21.6
December,	37 15	21.6	35 19	16.1	27 07	16.1	30 30	16.1	32 04	16.1	32 28	16.1	42 70	21.6	39 34	21.6	39 35	21.6	52 53	21.6
Total,	\$417 39	253.4	\$382 70	230.5	\$405 32	230.5	\$420 73	230.5	\$437 85	230.5	\$457 03	230.5	\$484 20	241.7	\$515 67	253.4	\$519 89	253.4	\$499 62	241.7

No. 79.—NUMBER OF DAYS IN OPERATION DURING THE YEAR, 260 8-10.

Highest Individual Earnings.

	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
1888.																				
January,	\$72 42	25.3	\$72 42	25.3	\$143 63	25.3	\$89 96	25.3	\$74 35	25.3	\$83 07	25.3	\$33 07	25.3	\$19 00	25.3	\$70 21	25.3	\$55 72	25.3
February,	82 38	14	82 38	14	80 48	14	54 39	14	50 60	14	35 72	14	41 16	14	62 90	14	45 04	14	27 99	14
March,	65 64	23.3	65 64	23.3	76 23	23.3	59 10	23.3	79 46	23.3	98 23	23.3	98 23	23.3	72 88	23.3	59 55	23.3	74 61	23.3
April,	43 72	24.5	43 72	24.5	117 58	24.5	30 38	24.5	48 43	24.5	52 84	24.5	35 91	24.5	32 30	24.5	25 09	24.5	57 81	24.5
May,	68 09	23.7	52 85	23.7	42 25	23.7	25 12	23.7	47 65	23.7	15 91	23.7	15 92	23.7	32 54	23.7	33 79	23.7	56 47	23.7
June,	108 66	17.8	108 66	17.8	50 01	17.8	77 37	17.8	64 81	17.8	62 87	17.8	62 88	17.8	36 50	17.8	58 33	17.8	41 32	17.8
July,	87 41	17.3	87 40	17.3	73 72	17.3	81 89	17.3	61 22	17.3	67 64	17.3	67 63	17.3	40 24	17.3	55 60	17.3	77 86	17.3
August,	63 59	23.4	63 59	23.4	90 47	23.4	86 24	23.4	46 69	23.4	62 98	23.4	62 99	23.4	35 35	23.4	65 08	23.4	47 03	23.4
September,	80 75	20.6	80 76	20.6	104 55	20.6	97 41	20.6	88 50	20.6	57 05	20.6	57 05	20.6	64 62	20.6	42 99	20.6	43 41	20.6
October,	88 08	25	88 10	25	63 79	25	101 31	25	106 76	25	53 91	25	83 91	25	65 39	25	57 15	25	68 99	25
November,	84 63	22.3	84 63	22.3	25 73	22.3	76 86	22.3	85 48	22.3	74 22	22.3	74 22	22.3	62 40	22.3	80 95	22.3	45 69	22.3
December,	97 07	23.6	99 07	23.6	58 68	23.6	102 42	23.6	84 37	23.6	80 82	23.6	80 82	23.6	90 73	23.6	69 43	23.6	41 81	23.6
Total,	\$947 44	260.8	\$933 72	260.7	\$927 12	260.8	\$882 45	260.8	\$838 32	260.8	\$775 26	260.8	\$763 79	260.8	\$671 35	260.8	\$663 21	260.8	\$611 71	260.8

Lowest Individual Earnings.

January,	\$31 35	25.3	\$15 63	25.3	\$38 19	25.3	\$39 89	25.3	\$11 32	25.3	\$11 22	25.3	\$19 42	25.3	\$48 38	25.3	\$52 37	25.3	\$16 36	25.3
February,	38 07	14	32 89	14	18 36	14	22 93	14	21 19	14	26 83	14	26 00	14	26 30	14	29 71	14	35 67	14
March,	51 26	23.3	42 05	23.3	91 18	23.3	32 05	23.3	51 44	23.3	46 22	23.3	37 43	23.3	61 43	23.3	59 00	23.3	71 46	23.3
April,	32 77	24.5	37 09	24.5	44 55	24.5	29 01	24.5	33 15	24.5	31 46	24.5	29 40	24.5	51 47	24.5	19 26	24.5	48 43	24.5
May,	33 97	23.7	27 24	23.7	22 37	23.7	27 25	23.7	33 02	23.7	42 23	23.7	56 15	23.7	48 11	23.7	14 83	23.7	47 65	23.7
June,	28 61	17.8	39 10	17.8	1 51	17.8	39 10	17.8	42 97	17.8	29 45	17.8	18 13	17.8	38 22	17.8	36 46	17.8	64 82	17.8
July,	36 36	17.3	38 07	17.3	88 17	17.3	38 06	17.3	40 44	17.3	42 78	17.3	40 45	17.3	44 01	17.3	35 62	17.3	61 20	17.3
August,	47 87	23.4	42 17	23.4	100 96	23.4	42 18	23.4	48 35	23.4	56 37	23.4	91 14	23.4	51 24	23.4	16 54	23.4	41 67	23.4
September,	26 33	20.6	38 10	20.6	16 28	20.6	40 10	20.6	31 00	20.6	43 08	20.6	76 09	20.6	24 83	20.6	87 47	20.6	48 18	20.6
October,	50 39	25	50 31	25	19 50	25	50 30	25	66 51	25	62 05	25	58 69	25	46 40	25	76 75	25	43 40	25
November,	34 23	22.3	39 05	22.3	29 95	22.3	40 06	22.3	50 63	22.3	54 93	22.3	29 92	22.3	53 06	22.3	126 77	22.3	43 00	22.3
December,	39 90	23.6	15 16	23.6	28 97	23.6	56 18	23.6	27 09	23.6	18 16	23.6	34 41	23.6	45 84	23.6	84 40	23.6	46 34	23.6
Total,	\$134 11	260.8	\$146 86	260.8	\$149 99	260.8	\$457 11	260.8	\$500 11	260.8	\$514 78	260.8	\$521 13	260.8	\$539 29	260.8	\$589 23	260.8	\$193 18	260.8

No. 80.—NUMBER OF DAYS IN OPERATION DURING THE YEAR, 237.
Highest Individual Earnings.

	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
1888.																				
January,	\$63 33	18	\$33 61	17	\$48 60	16	\$74 31	24	\$31 75	18	\$31 84	14	\$44 97	23	\$52 22	21	\$54 51	21	\$50 97	18
February,	50 33	14	29 34	11	42 91	14	62 14	17	20 36	8	27 59	12	36 06	14	32 48	13	60 78	17	17 40	8
March,	68 00	20	61 32	18	55 30	16	61 47	19	33 89	17	51 57	17	52 26	19	57 79	12	55 81	16	40 10	12
April,	98 52	21	45 99	21	66 49	20	85 85	23	84 53	24	56 55	21	50 76	18	55 34	21	54 48	21	60 93	24
May,	63 74	17	61 43	23	55 68	21	47 14	19	105 05	24	58 19	23	43 77	21	62 83	18	51 73	19	61 15	24
June,	60 46	17	45 45	16	81 84	17	46 39	19	45 78	19	41 20	19	33 39	19	25 02	13	41 10	17	23 87	18
July,	87 98	25	43 53	18	62 37	24	47 34	24	80 70	25	55 54	22	54 35	24	46 50	22	45 27	22	47 18	24
August,	94 39	24	61 07	25	46 19	24	44 08	22	72 31	21	72 92	25	54 25	26	62 58	25	56 60	25	69 42	26
September,	108 84	22	90 86	24	58 62	25	50 89	21	54 56	22	86 35	24	77 96	21	7 33	11	58 88	20	64 43	23
October,	58 01	25	67 84	21	57 64	21	54 68	24	66 78	24	79 56	21	64 31	24	76 28	25	62 62	26	79 48	22
November,	56 76	21	98 90	25	52 79	18	66 85	23	50 82	22	55 49	19	76 40	23	49 77	18	52 30	19	72 94	17
December,	84 19	24	81 66	24	80 88	24	67 06	25	47 81	21	58 38	24	76 87	20	24 43	11	62 30	21	41 05	17
Total,	\$903 55	248	\$721 05	243	\$708 71	240	\$708 20	260	\$694 31	245	\$666 18	241	\$665 35	252	\$552 62	210	\$656 38	244	\$631 92	233

Lowest Individual Earnings.

January,	\$48 25	25	\$47 49	21	\$29 75	16	\$33 21	18	\$35 45	14	\$36 56	18	\$39 05	19	\$35 63	18	\$32 03	18	\$17 00	12
February,	27 02	14	33 90	13	30 71	14	45 49	6	32 45	12	31 06	12	27 40	12	21 57	9	14 56	9	13 55	8
March,	44 88	23	37 26	15	49 16	15	41 30	16	40 35	15	32 30	17	37 26	16	16 34	15	24 44	13	33 58	17
April,	55 27	21	54 25	20	51 60	19	39 57	19	43 70	20	38 94	20	40 77	21	50 94	21	26 60	18	36 23	16
May,	61 63	23	55 38	24	39 35	16	48 42	23	33 69	13	50 84	23	28 07	17	38 33	19	45 69	24	29 84	17
June,	48 89	18	31 16	15	26 97	13	32 41	16	30 67	14	32 25	17	28 20	15	26 85	16	34 36	18	5 01	2
July,	52 69	24	20 28	15	36 54	22	46 59	21	41 12	20	35 26	20	35 69	23	25 14	18	33 11	21	39 96	22
August,	64 38	25	50 89	26	55 11	24	64 81	25	55 14	26	51 22	25	46 27	25	47 50	19	35 91	22	45 09	20
September,	74 37	22	52 94	22	54 93	23	71 63	24	58 47	24	49 37	24	54 30	23	47 71	22	50 03	22	42 27	20
October,	57 01	23	55 56	23	52 46	23	42 07	24	41 28	19	51 54	24	45 91	23	47 71	25	50 78	23	54 76	25
November,	68 39	23	62 54	20	57 53	22	42 76	22	46 11	23	50 21	23	49 12	24	35 87	18	22 01	16	55 52	19
December,	58 11	25	48 62	19	62 70	24	55 40	21	57 27	23	41 23	18	48 24	25	26 80	13	37 38	17	9 95	14
Total,	\$661 52	266	\$550 27	233	\$549 31	231	\$563 57	235	\$515 70	223	\$501 78	241	\$474 28	246	\$421 12	213	\$406 96	221	\$382 86	192

No. 81.—NUMBER OF DAYS IN OPERATION DURING THE YEAR, 2044.
Highest Individual Earnings.

1888.	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	No. of days.		No. of days.		No. of days.		No. of days.		No. of days.		No. of days.		No. of days.		No. of days.		No. of days.		No. of days.	
	Earnings.		Earnings.		Earnings.		Earnings.		Earnings.		Earnings.		Earnings.		Earnings.		Earnings.		Earnings.	
January,	\$86 84	13	\$29 47	11.7	\$69 60	22.6	\$75 00	19.8	\$69 12	18	\$77 61	21.5	\$41 60	16.2	\$34 67	10.7	\$52 33	16.2	\$17 82	9.9
February,	52 31	6.4	63 32	18.4	40 43	13	36 10	15.3	31 46	13	45 36	13.5	40 51	11.2	40 30	13.9	30 41	11.8	37 07	11.7
March,	83 27	16.2	50 66	14.9	43 48	14.4	43 80	15.7	41 72	13	18 39	6	36 75	15.3	48 18	15.3	40 77	11.2	64 00	16
April,	48 00	24	76 00	25	92 50	25	97 25	25	58 65	25	90 00	25	81 50	25	72 24	24	95 00	25	77 15	25
May,	48 00	24	68 85	22.5	71 53	22.5	86 85	22.5	83 70	22.5	86 75	25	81 62	22	51 07	22.5	49 77	21.5	96 30	22.5
June,	61 88	17	56 75	21	58 50	18	63 98	17	78 62	18.5	85 44	24	80 01	21	65 31	21	56 91	21	58 85	21
July,	107 00	25	70 75	25	72 24	24	62 78	18.5	62 48	24	82 38	26	66 75	25	54 48	24	88 56	24	66 48	24
August,	125 28	27	80 50	25	75 00	25	40 78	9	43 47	11.5	80 46	27	77 00	25	55 38	23	87 22	24.5	57 73	23
September,	113 52	24	20 16	7	66 06	18	74 34	21	50 00	25	75 25	25	54 27	16.7	66 24	26	58 97	17.5	47 52	24.5
October,	101 12	19	54 33	20.5	59 16	26	49 01	14.5	72 57	20.5	66 04	26	111 80	26	56 28	21	49 14	26.5	43 92	12
November,	86 88	16	25 04	10.8	75 26	22.6	74 79	19	68 67	23.6	74 00	25	40 26	22.6	78 85	23.4	50 38	22.5	34 36	16.6
December,	69 25	11.7	62 92	18.1	63 43	20.2	50 32	14.8	63 72	21.1	74 16	24	61 20	22.5	57 52	21.6	51 02	21.1	50 52	20.7
Total,	\$986 38	223.3	\$660 85	220.2	\$787 21	250.8	\$755 00	212.1	\$727 18	235.7	\$855 75	268	\$773 30	248.2	\$680 52	246.4	\$713 51	242.9	\$652 32	226.9

Lowest Individual Earnings.

January,	\$ 5 36	20.3	\$30 09	14.4	\$59 66	19	\$38 13	15.7	\$18 67	17.9	\$42 95	19.8	\$11 58	21	\$37 98	18	\$23 44	8	\$41 16	19.7
February,	19 08	6.8	39 48	15.3	34 42	13.5	34 05	14.8	34 53	13.9	20 10	13.4	28 32	12	44 53	14.3	8 44	6.3	36 58	11.8
March,	44 05	14.8	49 02	21.5	38 38	15.7	45 86	16.2	21 93	10.7	33 38	15.3	29 52	18	33 21	15.3	15 91	7.2	30 00	15
April,	64 25	25	69 92	23	68 25	25	62 00	25	36 72	17	75 25	25	56 43	27	70 75	25	61 52	24	34 96	19
May,	64 93	21.5	67 20	24	58 26	21.5	51 97	17.5	63 90	22.5	50 53	22.5	53 46	22	62 04	22	52 26	21.5	4 42	2
June,	50 40	20	66 00	20	55 60	20	36 54	14	72 66	21	35 49	21	46 80	20	53 31	21	49 56	21	38 95	19
July,	59 84	16	54 23	20.5	53 36	23	35 70	14	77 25	25	56 75	25	62 40	16	51 60	24	45 32	22	46 32	24
August,	31 27	11.5	61 05	22.2	66 09	27	59 62	22	62 92	26	49 14	21	75 26	26.5	58 84	26	60 19	23.5	53 00	25
September,	58 26	21.5	75 26	26.5	60 48	24	54 67	22.5	59 29	24.5	50 60	20	58 48	24	53 81	22.5	46 34	20.7	43 34	22
October,	48 25	25	47 88	23.6	63 86	24.5	00 06	26	62 65	22.5	26 01	9	62 81	27	60 42	26.5	75 73	25.5	45 05	26.5
November,	57 32	23.3	65 21	20.2	51 46	21.4	53 39	18.6	46 49	20.3	47 38	24	72 00	24	48 48	23.3	47 67	21	40 59	19.9
December,	51 42	17.5	49 66	19.1	63 46	21.6	50 16	17.6	56 92	22.5	26 88	10.8	43 47	23	49 72	22.5	41 58	18.9	20 88	21.6
Total,	\$20 46	222.7	\$675 03	250.3	\$678 28	261.2	\$582 15	223.9	\$633 93	243.8	\$514 46	227.1	\$630 13	260.5	\$629 49	261.4	\$528 16	219.6	\$445 25	225.5

No. 82.—NUMBER OF DAYS IN OPERATION DURING THE YEAR, 214.
Highest Individual Earnings.

	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
1898.																				
January,	\$61 35	20	\$61 35	20	\$50 45	25	\$18 42	24	\$51 44	18½	\$63 68	22	\$65 79	20	\$69 62	25	\$53 57	18	\$19 59	24
February,	54 31	18	54 31	18	44 86	18	44 86	18	44 86	18	49 76	17	58 44	19	45 17	23	50 86	18	45 46	17
March,	85 14	22	85 14	22	95 73	22	95 73	22	78 98	22	78 92	22	73 15	23	49 99	24	73 22	20	85 61	22
April,	82 10	21	82 10	21	79 92	21	79 93	21	78 30	22	78 30	22	73 25	24	53 96	24½	64 02	22	58 32	22
May,	54 82	16	54 82	16	33 58	11	31 66	10	43 15	16	48 79	19	63 42	21	54 60	25	52 29	20	49 78	20
June,	76 01	26	76 01	24	48 46	26	48 46	26	16 40	9	39 02	21	49 65	24	63 49	25	78 38	22	59 38	22
July,	43 21	21	41 26	20	63 09	21	63 09	21	63 08	21	80 86	21	46 04	21	66 51	23	55 70	24	75 33	25
August,	56 22	25	56 22	22	77 19	25	77 19	25	77 18	25	80 51	26	59 44	25	50 62	25	63 69	24½	64 07	22
September,	79 37	24	79 38	24	79 28	21	79 29	22	79 29	21	74 72	24	44 80	22	71 09	25½	46 19	23	57 19	10
October,	100 47	27	100 47	27	99 82	27	99 82	27	99 82	27	78 44	26	65 89	27	83 36	25	80 41	27	67 34	27
November,	91 72	25	91 72	25	103 28	25	103 27	25	103 27	25	71 41	24	81 57	24	59 33	2½	78 29	24	64 90	26
December,	61 17	18	61 17	18	54 14	16	54 14	16	51 14	16	61 79	22	68 44	20	80 99	24	59 09	20	62 11	25
Total,	\$345 89	263	\$843 91	257	\$829 80	258	\$825 86	257	\$789 86	24½	\$766 20	266	\$749 88	270	\$747 73	29½	\$745 77	264½	\$739 08	272

Lowest Individual Earnings.

January,	\$10 35	7	\$17 29	11	\$17 30	12	..	10½	\$18 37	11½	\$18 37	11½	\$18 37	11½	\$18 37	11½	\$16 72	10½	\$21 12	11
February,	17 14	13	19 83	12	14 61	12½	\$16 27	12½	23 81	13½	23 81	13½	23 81	13½	23 82	13½	15 77	10½	15 06	11½
March,	29 55	17	41 61	22	24 88	13	38 22	22	37 40	22	37 40	22	37 40	22	37 41	22	44 42	22	40 86	23½
April,	30 68	21	46 40	21	24 83	20	21 07	17	33 05	20	33 05	20	33 05	20	33 05	20	29 30	19	34 19	19
May,	15 65	12	32 36	15	21 64	14	20 28	18	30 60	15	30 60	15	30 60	15	20 61	15	29 31	14	28 80	16
June,	22 29	16	36 77	18	25 78	16	28 74	18	28 03	18	28 03	18	28 03	18	28 03	18	38 16	19	45 06	24
July,	23 14	20	37 85	23	32 43	22	43 46	23	32 43	22	32 21	21	41 90	23	41 91	22	32 21	21	41 96	2½
August,	29 77	21	6 23	4	31 05	23	43 55	23	37 06	23	43 06	23½	39 37	23	39 37	23	43 06	23½	48 89	25½
September,	59 79	20	15 18	13	28 91	19	28 10	20	28 92	19	29 31	20	38 34	20	38 34	20	29 31	20	36 49	20
October,	34 71	24	24 65	24	42 80	25	40 43	23	42 80	25	36 19	19	31 58	25	31 58	25	36 19	19	57 10	25
November,	27 04	21	39 03	22	34 96	22	28 42	21	34 96	22	41 97	23	37 25	21	37 25	21	44 97	23	42 11	23
December,	23 26	15	8 34	6	20 72	15	25 82	15	20 72	15	6 71	6	22 70	15	22 70	15	13 05	9	26 60	17
Total,	\$298 37	207	\$825 57	191	\$825 91	213½	\$829 36	207½	\$831 82	216½	\$559 45	20½	\$572 40	226	\$572 44	226	\$572 47	212½	\$488 24	238

No. 83—NUMBER OF DAYS IN OPERATION DURING THE YEAR,—
Highest Individual Earnings.

	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
1888.																				
January,	\$10 63	17	\$44 42	18	\$18 79	24	\$13 64	22	\$39 54	14½	\$15 93	17	\$38 41	15	\$13 63	15	\$40 59	20	\$37 11	17
February,	75 42	24½	81 25	24	79 82	23	70 54	19	70 60	1½	89 55	21	97 89	23	90 97	23	80 39	23	101 14	23
March,	92 23	25	84 91	24½	87 50	23	85 98	23	89 75	25	103 92	24	60 24	15	90 37	18	106 57	24	120 79	20
April,	89 63	24	81 53	25	85 71	25	119 05	2½	86 77	24	111 73	25	96 62	26	93 43	25	81 47	25	92 54	26
May,	73 25	21½	81 93	24	88 82	26	71 74	20	92 56	26	67 55	17	59 70	17	103 68	26	91 20	22	80 72	22
June,	91 08	22	92 91	25	78 25	2½	73 35	19	91 23	24	90 15	25	98 53	23	93 52	21	95 68	24	83 54	24
July,	101 72	26	109 21	25	92 46	25	51 50	12	90 73	21	92 79	26	103 36	26	108 77	25	91 28	23	102 01	26
August,	96 97	25	99 07	25	75 09	21	107 99	25	93 72	25	83 02	19	93 80	25	90 59	23	90 04	25	98 25	25
September,	75 72	24½	95 31	27	76 58	23	87 12	25	56 30	23	96 74	27	121 41	2½	90 66	26	86 64	26	96 69	24
October,	79 55	21	96 08	24	74 95	21	80 25	24	129 10	23	93 31	2½	83 67	22	85 18	22	86 32	2½	90 71	24
November,	75 03	20	54 26	18	52 68	17	77 24	18	53 73	15	59 47	18	58 75	16	88 48	19	63 00	18	64 90	20
December,																				
Total,	\$891 23	24½	\$923 96	25½	\$810 65	24½	\$868 40	23½	\$899 03	237	\$936 09	24½	\$912 28	23½	\$898 28	243	\$916 18	25½	\$968 40	251

Lowest Individual Earnings.

	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
January,	\$38 40	19	\$12 04	20	\$41 74	18	\$43 72	1½	\$36 31	1½	\$10 74	18	\$41 50	20	\$34 84	16	\$34 27	16	\$27 29	13
February,	26 32	19	11 36	1½	28 75	17	30 50	22	28 79	18	26 30	18	31 64	22	32 13	22	30 43	20	29 14	19
March,	41 25	25	23 45	20	24 77	17	33 89	21	30 96	20	36 63	24	38 40	24	34 21	22	15 84	15	24 72	19
April,	34 13	22	27 67	19	33 30	22	42 27	25	38 21	25	33 45	23	38 51	20	31 52	22	41 30	26	39 44	25
May,	30 08	24	44 59	26	38 83	25	41 52	26	31 44	21	37 99	24	39 04	25	41 97	28	24 16	17	25 48	16
June,	20 46	20	32 11	22	30 33	24	28 90	20	23 74	17	20 14	14	36 82	24	19 77	19	21 08	17	19 07	15
July,	21 92	14	30 70	20	32 28	20	27 18	21	35 12	25	34 24	22	39 01	24	35 04	23	41 50	24	31 78	22
August,	29 90	20	30 75	22	31 57	21	34 51	2½	33 46	23	24 39	19	27 82	19	36 82	24	37 97	21	34 77	23
September,	33 83	26	42 38	25	35 66	24	39 20	25	41 44	25	32 53	23	41 33	25	42 29	24	41 79	24	46 94	27
October,	29 55	2½	26 23	25	19 29	19	37 90	25	39 47	24	26 56	20	31 26	21	27 82	22	27 11	20	36 6	24
November,	14 67	13	20 81	1½	17 74	17	23 23	21	16 48	15	20 39	18	21 77	18	14 85	14	20 74	18	20 98	19
December,																				
Total,	\$320 51	22½	\$332 09	232	\$331 76	224	\$332 85	21½	\$355 42	23½	\$333 26	223	\$380 10	242	\$351 26	236	\$336 19	221	\$338 67	222

No. 84.—NUMBER OF DAYS IN OPERATION DURING THE YEAR, ———.

Highest Individual Earnings.

	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
1888.																				
January,	\$68 54	19	\$52 50	17	\$54 21	19	\$49 96	19	\$49 76	20	\$46 58	19	\$45 43	20	\$47 36	21	\$43 13	21	\$44 09	21
February,																				
March,	70 97	21	72 13	24	61 24	22	52 53	20	46 92	18	52 71	22	51 50	21	40 33	17	50 91	22	38 19	18
April,	77 81	22	55 22	19	63 87	23	59 24	22	57 40	21	53 97	22	47 32	20	50 63	22	50 69	23	47 23	22
May,	58 59	17	54 91	17	51 70	18	50 03	18	47 93	18	41 63	17	41 12	17	39 58	17	33 99	17	37 92	18
June,	75 56	22	77 38	25	77 40	26	71 26	25	70 54	27	65 53	26	58 66	24	59 90	26	57 25	26	54 96	26
July,	69 92	21	63 82	21	58 38	22	58 25	23	59 30	24	55 95	24	53 87	24	51 23	24	46 47	23	47 60	24
August,	75 51	25	71 54	26	70 28	26	68 00	23	61 43	25	62 63	26	58 59	26	58 10	26	57 15	26	52 27	25
September,	98 65	25	81 76	24	69 91	23	70 90	24	66 83	23	66 69	24	60 62	22	53 35	20	62 57	24	60 55	24
October,	83 21	24	84 24	25	79 60	27	72 14	25	75 37	27	73 50	27	72 88	27	70 08	27	63 32	25	63 66	27
November,	65 74	20	66 01	23	58 21	21	57 43	21	55 93	21	53 90	21	52 42	21	53 19	22	53 43	23	53 22	24
December,	63 04	18	55 23	18	46 52	16	49 02	18	46 45	18	44 69	19	43 13	19	36 90	17	36 54	17	35 38	17
Total,	\$808 54	234	\$734 74	239	\$691 32	243	\$658 76	242	\$640 86	244	\$617 83	247	\$585 39	241	\$560 70	239	\$561 45	247	\$535 07	246

Lowest Individual Earnings.

January,	\$25 02	21	\$25 91	19	\$26 46	18	\$30 29	19	\$28 26	17	\$31 93	19	\$31 36	18	\$33 54	19	\$35 79	20	\$33 94	18
February,																				
March,	27 05	21	29 65	19	32 12	20	36 76	22	39 57	23	38 81	22	39 04	22	38 02	21	38 48	21	40 06	21
April,	32 19	24	22 14	15	27 75	18	32 33	20	35 10	21	34 97	20	28 65	16	43 80	24	39 38	21	42 66	21
May,	23 28	18	35 64	19	21 95	13	33 23	18	30 42	17	33 28	18	32 84	17	33 40	17	34 50	17	38 28	18
June,	21 40	23	25 05	19	30 51	21	37 79	24	35 39	25	41 02	25	39 21	23	41 06	23	44 18	24	43 57	26
July,	28 35	23	28 46	21	32 78	23	29 44	20	34 08	22	26 20	16	35 45	21	36 42	20	40 70	23	44 30	23
August,	32 67	25	34 83	23	33 36	24	36 35	25	37 65	25	38 08	24	40 80	25	41 68	25	42 41	24	43 20	24
September,	27 85	20	36 22	24	33 31	23	37 44	22	38 42	23	39 25	23	42 00	24	40 60	23	41 20	23	43 20	24
October,	36 86	26	38 99	25	38 09	24	43 03	26	45 95	7	46 80	27	43 34	24	45 94	25	48 62	26	47 21	25
November,	21 10	19	23 87	19	28 42	20	28 27	19	28 79	18	32 23	20	32 59	20	25 21	21	35 48	21	34 40	20
December,	26 86	20	27 50	20	28 57	19	29 93	19	28 59	17	33 07	19	39 78	22	29 49	16	34 80	18	30 58	20
Total,	\$302 63	240	\$328 26	237	\$336 32	223	\$374 89	234	\$386 52	235	\$395 69	233	\$405 66	232	\$419 16	234	\$435 54	238	\$443 88	238

No. 85.—NUMBER OF DAYS IN OPERATION DURING THE YEAR, —.

Highest Individual Earnings.

1488.	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
January,	\$61 75	16	\$74 15	20	\$82 09	21	\$83 26	22	\$84 54	19	\$91 07	23	\$90 43	23	\$94 35	23	\$102 33	24	\$108 80	24
February,	53 38	17	54 91	16	71 66	17	72 06	20	76 43	21	78 37	21	73 39	20	80 58	24	85 99	27	104 31	26
March,	66 95	22	68 91	24	68 94	24	63 96	22	63 99	24	69 00	23	70 04	23	75 31	24	83 16	24	86 09	26
April,	75 79	23	78 87	22	80 51	24	81 10	22	81 11	22	82 36	25	82 82	24	84 78	22	89 92	25	92 75	21
May,	67 50	22	72 88	21	73 34	27	73 82	24	74 32	24	75 12	27	75 15	25	82 77	24	83 93	25	96 93	24
June,	51 28	18	52 30	18	61 05	18	6 77	22	62 79	19	62 90	20	62 94	22	62 99	18	75 12	17	95 35	23
July,	31 23	22	81 77	24	81 78	24	83 52	24	85 38	25	83 95	25	90 18	21	90 39	22	92 14	21	95 18	24
August,	55 39	16	58 62	17	64 38	21	64 40	22	70 70	21	82 44	24	85 79	25	86 75	25	88 13	26	90 11	26
September,	65 37	18	71 92	23	73 59	20	74 17	25	74 61	20	74 63	20	83 33	14	90 40	23	92 79	23	80 14	22
October,	59 71	19	62 32	23	66 99	21	68 27	22	70 30	23	71 51	21	73 21	22	92 11	22	95 49	24	99 95	24
November,	50 17	15	52 94	16	56 27	15	59 06	16	59 22	17	65 18	18	68 35	18	70 87	18	72 83	19	78 47	21
December,																				
Total,	\$688 55	208	\$729 59	221	\$759 61	232	\$790 39	241	\$808 47	235	\$839 59	247	\$861 63	240	\$911 33	245	\$961 88	255	\$1,021 88	261

Lowest Individual Earnings.

January,	\$3 77	21	\$15 47	20	\$18 78	15	\$19 97	20	\$22 33	27	\$25 71	18	\$29 15	19	\$32 08	19	\$30 04	19	\$30 22	19
February,	9 24	16	11 00	14	15 18	13	18 35	25	20 25	18	21 68	17	23 37	15	24 85	19	25 26	18	28 80	20
March,	28 54	22	28 50	20	28 92	20	30 07	25	30 08	23	30 49	21	33 34	22	33 35	22	34 34	23	37 95	23
April,	30 49	21	30 56	22	31 57	21	31 70	24	32 18	24	33 59	24	34 09	24	34 10	24	35 00	24	36 80	23
May,	22 39	19	24 61	19	24 16	19	24 37	21	24 64	20	24 74	22	24 97	18	30 59	20	33 33	24	33 56	24
June,	19 52	16	20 93	18	20 31	20	21 28	16	21 76	18	21 95	16	24 68	20	25 70	17	28 81	18	28 88	20
July,	18 90	11	23 50	19	31 32	19	32 75	23	33 34	19	33 83	24	37 38	21	37 58	23	37 53	21	41 65	24
August,	22 82	17	29 13	23	31 13	21	31 21	26	36 20	22	36 52	26	36 75	24	36 83	23	37 25	24	37 93	22
September,	23 18	27	24 76	18	24 90	24	25 02	24	2 60	23	27 70	20	29 33	20	35 12	22	39 50	24	40 33	27
October,	13 09	13	19 43	20	20 23	21	25 84	24	23 22	19	28 05	22	30 47	21	30 62	21	29 99	22	33 63	22
November,	18 20	13	18 89	17	18 36	17	21 30	17	22 73	17	24 44	18	24 45	19	26 63	16	27 88	17	31 83	19
December,																				
Total,	\$210 05	199	\$246 63	210	\$264 91	210	\$282 36	240	\$293 33	230	\$308 70	228	\$327 98	223	\$347 50	226	\$359 03	234	\$380 57	243

No. 86.—NUMBER OF DAYS IN OPERATION DURING THE YEAR, 305.
Highest Individual Earnings.

	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
1888.																				
January,	\$68 93	15	\$32 03	26	\$70 47	26	\$54 83	25	\$32 61	26	\$45 85	18	\$75 60	26	\$67 49	25	\$54 88	22	\$59 62	24
February,	22 17	10	61 59	24	17 57	24	52 84	23	41 87	24	42 30	23	42 30	23	50 87	24	39 90	14	61 24	23
March, . . . . .	..	..	77 29	25	45 48	26	50 82	23	50 68	25	69 28	25	46 19	25	55 86	24	26 89	11	50 85	21
April, . . . . .	..	..	81 23	25	49 82	11	73 03	25	65 98	22	53 25	22	52 57	24	54 11	24	51 56	22	48 63	24
May, . . . . .	..	..	108 03	26	99 07	23	94 15	25	84 65	23	70 73	23	40 76	22	52 24	23	95 97	26	59 68	23
June, . . . . .	..	..	79 65	25	58 67	14	94 47	25	54 46	26	63 56	26	73 50	26	60 75	26	68 32	22	57 41	26
July, . . . . .	..	..	54 50	25	41 21	20	85 09	25	54 64	18	69 16	24	73 30	25	60 25	25	65 77	25	61 02	25
August, . . . . .	..	..	30 38	15	102 60	27	86 14	27	49 65	27	78 41	26	77 71	27	66 85	27	35 80	23	61 02	27
September, . . . . .	..	..	58 77	24	75 12	25	29 61	7	80 83	25	76 31	25	50 88	25	75 91	25	83 65	25	60 93	23
October, . . . . .	..	..	109 60	27	104 08	26	68 30	25	105 27	27	59 19	24	64 34	25	60 89	25	75 92	25	60 39	24
November, . . . . .	..	..	59 18	25	71 51	25	54 35	23	105 62	23	63 42	25	52 79	26	47 28	26	51 38	24	54 37	26
December, . . . . .	..	..	52 84	25	79 57	23	57 35	24	34 18	19	37 64	24	58 74	25	54 97	25	47 23	25	49 60	21
Total,	\$963 84	242	\$324 40	292	\$315 17	269	\$798 98	276	\$759 44	285	\$55 82	286	\$708 68	299	\$707 51	299	\$700 27	264	\$681 76	282

Lowest Individual Earnings.

	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
January,	\$14 40	17	\$22 36	22	\$10 65	26	\$10 97	17	\$28 24	24	\$35 95	24	\$28 67	20	\$52 55	21	\$35 06	25	\$63 02	24
February,	31 01	21	41 61	20	59 22	21	22 25	14	34 68	17	27 19	19	26 10	20	41 44	23	38 43	20	36 14	19
March, . . . . .	..	..	33 90	20	48 42	25	48 47	25	27 47	22	25 23	20	42 74	25	67 57	25	50 45	25	45 38	25
April, . . . . .	..	..	13 45	8	42 45	23	50 81	24	46 61	22	36 89	16	71 29	24	35 61	23	49 16	21	66 65	21
May, . . . . .	..	..	24 43	11	45 23	22	61 33	25	27 30	18	42 57	19	74 04	25	38 11	19	45 79	20	52 12	23
June, . . . . .	..	..	38 17	19	45 68	25	62 71	24	51 63	24	45 92	23	54 95	25	31 48	23	59 22	22	56 22	26
July, . . . . .	..	..	43 33	22	51 49	22	47 45	22	53 70	25	59 56	24	50 81	23	53 14	23	31 67	18	61 93	25
August, . . . . .	..	..	40 11	23	28 84	23	52 45	26	55 24	24	41 89	21	44 84	26	50 74	25	140 25	26	52 59	26
September, . . . . .	..	..	45 07	25	32 99	24	14 51	13	42 96	23	77 50	23	16 80	19	57 31	22	31 61	25	51 73	22
October, . . . . .	..	..	53 75	24	19 91	15	25 41	20	33 38	21	29 09	22	85 18	21	44 32	23	52 72	25	54 48	26
November, . . . . .	..	..	42 92	21	2 68	3	28 67	22	32 38	23	18 76	22	25 62	19	24 56	19	32 19	24	46 91	23
December, . . . . .	..	..	34 85	21	34 49	25	18 55	15	24 73	20	28 97	23	20 40	18	45 12	23	41 19	22	40 58	20
Total,	\$137 76	266	\$144 03	239	\$151 45	257	\$453 58	247	\$468 36	263	\$469 52	258	\$191 44	265	\$541 95	269	\$607 14	273	\$627 75	283

No. 87.—NUMBER OF DAYS IN OPERATION DURING THE YEAR, —. Highest Individual Earnings.

	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
1888.																				
January,	\$43 38	16 $\frac{1}{2}$	\$50 06	18	\$51 15	18	\$56 42	17 $\frac{1}{2}$	\$56 38	17 $\frac{1}{2}$	\$48 41	18	\$57 51	17 $\frac{1}{2}$	\$48 67	17 $\frac{1}{2}$	\$3 48	16 $\frac{1}{2}$	\$48 90	17 $\frac{1}{2}$
February,	27 97	16 $\frac{1}{2}$	50 50	15	46 80	14 $\frac{1}{2}$	48 15	16 $\frac{1}{2}$	42 51	15 $\frac{1}{2}$	47 45	15 $\frac{1}{2}$	31 80	16 $\frac{1}{2}$	48 15	15 $\frac{1}{2}$	38 50	15	27 97	16 $\frac{1}{2}$
March,	59 75	11 $\frac{1}{2}$	67 66	22 $\frac{1}{2}$	77 88	24	55 41	21 $\frac{1}{2}$	60 76	21 $\frac{1}{2}$	60 66	21 $\frac{1}{2}$	58 89	23	60 39	23	56 41	22 $\frac{1}{2}$	57 18	22 $\frac{1}{2}$
April,	70 94	25	46 60	18	62 23	24	65 81	25	61 25	24 $\frac{1}{2}$	62 68	23	61 40	24	78 28	25	67 40	25	67 18	25
May,	64 25	25	66 79	23	78 40	23	69 58	25	64 01	25	59 69	24	73 92	25	62 02	24	57 09	19	56 90	23
June,	64 25	24	66 65	26	63 25	25	68 40	26	70 30	26	94 60	23	68 25	24	76 76	26	64 71	24	57 91	20
July,	68 66	22 $\frac{1}{2}$	51 21	19	60 11	21	56 96	22	57 33	21	62 06	22	67 51	22	76 76	22	61 45	22	68 26	23
August,	67 19	24	66 24	22	72 82	24	67 82	24	68 27	24	81 28	22	63 66	21	54 52	21	68 81	24	39 68	15
September,	75 46	25	76 35	23 $\frac{1}{2}$	64 53	25	76 73	24	79 19	24	76 93	21	60 30	19	50 36	18	62 34	24	64 53	25
October,	68 91	26	80 32	27	79 39	27	73 31	27	68 87	25	87 06	27	62 88	19	63 14	18	82 85	25	71 18	25 $\frac{1}{2}$
November,	64 44	22	70 09	23	58 99	21	59 85	23	61 88	22	65 01	21	72 05	21	48 76	17	67 92	20	69 06	24
December,	45 11	17 $\frac{1}{2}$	51 81	14 $\frac{1}{2}$	52 32	17 $\frac{1}{2}$	37 02	15 $\frac{1}{2}$	39 28	14 $\frac{1}{2}$	46 77	17	50 37	17 $\frac{1}{2}$	45 04	16	53 72	15 $\frac{1}{2}$	44 99	15 $\frac{1}{2}$
Total,	\$721 31	255 $\frac{1}{2}$	\$714 28	255 $\frac{1}{2}$	\$767 38	265	\$735 40	265	\$731 03	257 $\frac{1}{2}$	\$792 60	257 $\frac{1}{2}$	\$728 54	261 $\frac{1}{2}$	\$706 77	243	\$724 75	255	\$673 74	241 $\frac{1}{2}$

Lowest Individual Earnings.

	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
January,	\$41 81	17 $\frac{1}{2}$	\$44 16	17 $\frac{1}{2}$	\$36 71	15 $\frac{1}{2}$	\$35 01	15 $\frac{1}{2}$	\$36 54	15	\$40 00	17 $\frac{1}{2}$	\$52 54	21	\$46 27	18	\$43 38	17 $\frac{1}{2}$	\$43 48	17 $\frac{1}{2}$
February,	36 49	17 $\frac{1}{2}$	29 91	15 $\frac{1}{2}$	51 30	22 $\frac{1}{2}$	35 62	15 $\frac{1}{2}$	37 39	15	24 28	16 $\frac{1}{2}$	88 29	15	21 12	9	24 74	16 $\frac{1}{2}$	34 76	16 $\frac{1}{2}$
March,	39 68	22	48 92	22	55 60	24	55 51	24	42 36	21 $\frac{1}{2}$	46 10	24	50 82	21 $\frac{1}{2}$	41 47	18	53 27	23	50 62	22
April,	50 22	23	43 01	22 $\frac{1}{2}$	55 60	24	56 74	25	39 98	23	50 51	25	35 90	17	50 47	21	57 74	25	56 25	24
May,	48 44	23	38 67	21	48 36	23	47 62	22	47 53	22	33 44	17 $\frac{1}{2}$	45 56	23	47 71	22	39 78	17 $\frac{1}{2}$	48 14	22
June,	56 77	25	60 59	26	43 29	19	60 15	26	58 71	26	37 11	17 $\frac{1}{2}$	47 98	26	57 73	26	56 80	24	63 56	26
July,	47 27	21	49 57	22	33 85	19	25 31	15	51 17	25 $\frac{1}{2}$	86 24	22	50 89	21	50 83	22	51 10	21	56 96	22
August,	57 19	24	50 52	23	52 26	24	52 04	24	42 07	22	57 14	21	59 87	24	48 98	21	45 53	20	42 99	16
September,	51 78	23	58 16	24	52 04	25	49 36	24 $\frac{1}{2}$	46 90	19	35 67	21	47 84	19	41 00	17 $\frac{1}{2}$	41 34	17 $\frac{1}{2}$	25 08	9
October,	56 64	24	65 19	27	41 45	21	61 44	26	68 91	26	68 64	27	67 03	25	65 59	23 $\frac{1}{2}$	72 00	20 $\frac{1}{2}$	73 31	27
November,	47 31	23	41 33	21 $\frac{1}{2}$	53 56	23	48 91	23	57 63	22	52 42	21	64 48	24	59 85	23	15 78	8	58 99	21
December,	35 48	17	34 82	17 $\frac{1}{2}$	31 72	17 $\frac{1}{2}$	37 02	15 $\frac{1}{2}$	38 54	14 $\frac{1}{2}$	33 17	15 $\frac{1}{2}$	47 49	17	44 96	17 $\frac{1}{2}$	47 15	17 $\frac{1}{2}$	46 11	17 $\frac{1}{2}$
Total,	\$570 10	255 $\frac{1}{2}$	\$564 85	255 $\frac{1}{2}$	\$520 26	241 $\frac{1}{2}$	\$567 73	249	\$567 73	249	\$516 75	23 $\frac{1}{2}$	\$608 69	251 $\frac{1}{2}$	\$576 01	244 $\frac{1}{2}$	\$548 66	228 $\frac{1}{2}$	\$500 25	238

No. 88—NUMBER OF DAYS IN OPERATION DURING THE YEAR, 242.5.
Highest Individual Earnings.

1888.	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
January,	\$78 03	22	\$40 56	13	\$80 22	22	\$77 15	20	\$54 72	17	\$50 11	16 $\frac{1}{2}$	\$55 54	17	\$59 93	20	\$51 34	16	\$39 52	13
February,	97 53	23	60 85	19	91 16	22	83 10	21	77 42	18 $\frac{1}{2}$	64 70	21	72 19	21	56 34	18	58 30	17	52 78	17
March,	94 21	22	81 08	20	83 53	21	65 35	16	67 42	20 $\frac{1}{2}$	73 39	22	70 64	20	67 91	20	63 00	19	54 96	17
April,	85 07	20	79 95	19	71 43	17	61 04	16 $\frac{3}{4}$	58 16	16 $\frac{3}{4}$	69 68	18	55 34	16 $\frac{1}{2}$	68 03	19	64 81	16 $\frac{1}{4}$	57 40	15
May,	75 26	17	76 75	17	57 30	15	52 54	15	50 68	15	42 64	13 $\frac{1}{2}$	51 35	15	69 53	15	50 78	13 $\frac{3}{4}$	37 71	11
June,	90 30	17	21 06	18	74 07	17	73 90	13	53 44	16 $\frac{1}{2}$	62 79	18	48 66	14 $\frac{1}{2}$	58 68	18	49 58	15 $\frac{1}{4}$	45 43	12 $\frac{1}{2}$
July,	91 27	20	84 64	18	55 00	15	75 43	19 $\frac{1}{2}$	69 18	18	78 32	20	61 06	17	69 44	20	66 23	18	61 93	17 $\frac{3}{4}$
August,	84 82	21	78 63	21	44 72	17	70 53	20	69 50	20	71 77	22	76 46	21 $\frac{1}{2}$	66 31	21	80 22	22	51 08	17
September,	95 66	24	93 02	24	66 18	18	58 81	18	88 01	23 $\frac{1}{2}$	82 17	25	75 16	22 $\frac{1}{2}$	82 17	24 $\frac{1}{4}$	76 63	23	66 40	19
October,	83 13	23	80 32	23	78 69	22	69 42	21	89 98	22 $\frac{1}{2}$	81 42	23 $\frac{1}{2}$	82 95	22	82 02	25 $\frac{1}{2}$	76 38	20 $\frac{1}{4}$	81 58	21 $\frac{1}{2}$
November,	69 72	21	99 85	24	93 84	24	60 55	17 $\frac{1}{2}$	75 86	23 $\frac{1}{2}$	67 01	20	74 84	22 $\frac{1}{4}$	53 40	19 $\frac{3}{4}$	33 28	13	62 11	17 $\frac{1}{2}$
December,	39 55	20	72 26	22	43 69	20	78 44	17 $\frac{1}{4}$	61 30	17 $\frac{1}{2}$	59 92	19 $\frac{1}{4}$	73 09	20 $\frac{1}{4}$	51 72	17 $\frac{1}{2}$	83 36	21	65 55	17 $\frac{1}{2}$
Total,	\$989 68	252	\$929 03	238	\$851 02	230	\$826 33	220	\$820 74	227	\$806 92	238	\$797 28	229	\$788 53	238	\$700 00	214	\$676 45	195 $\frac{1}{4}$

Lowest Individual Earnings.

1888.	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
January,	\$34 58	21	\$44 67	22	\$44 05	22	\$32 05	18	\$36 56	22	\$36 45	22	\$24 34	20	\$33 72	17	\$42 10	22	\$18 10	19
February,	53 17	22	53 02	22	48 02	23	49 6	22	30 75	13	39 90	22	25 37	23	26 98	19	32 50	21	19 51	19
March,	38 48	19	24 32	17	44 57	19	26 90	16	33 00	17	27 43	18	26 55	20	20 68	17	15 92	15	18 57	18
April,	34 99	20	23 55	14 $\frac{3}{4}$	15 96	13 $\frac{1}{2}$	17 38	12	24 44	15 $\frac{3}{4}$	26 20	16	23 71	16 $\frac{3}{4}$	25 65	16	24 46	15	24 21	14 $\frac{3}{4}$
May,	44 06	15	25 33	15	40 22	14	37 20	15	32 62	15	32 17	14	28 53	14	16 45	12	20 43	14	39 85	14
June,	18 90	10	31 52	17	19 89	13	26 98	13	34 21	17	26 90	12	27 93	14	31 31	15	81 47	16	38 84	14
July,	45 09	17	33 53	15	27 62	15	32 71	14	25 38	17	24 57	16	45 61	18	38 89	16	27 23	17	27 32	15
August,	30 57	18	37 52	20	27 75	17	39 36	19	34 46	19	25 83	19	25 76	18	32 56	19	32 02	19	27 01	18
September,	22 74	15	32 17	14	27 26	18	33 60	19	37 06	19	32 18	19	29 36	19	28 80	19	32 56	20	29 97	18
October,	35 54	20	20 18	18	37 09	19	39 46	18	31 88	16	33 33	8	41 46	20	37 01	18	39 83	19	24 23	16
November,	27 62	7	32 83	15	32 15	18	28 17	17	32 10	17	27 54	15	33 52	18	30 14	15	23 95	14	31 64	17
December,	27 54	14	28 56	14	24 22	12	24 94	14	27 25	15	35 14	20	32 39	16	29 78	16	24 94	14	28 28	15
Total,	\$413 68	208	\$400 13	203 $\frac{3}{4}$	\$388 80	204 $\frac{1}{2}$	\$393 35	197	\$379 22	208 $\frac{3}{4}$	\$372 74	211	\$365 03	210 $\frac{1}{4}$	\$351 37	193	\$347 81	206	\$318 61	197 $\frac{3}{4}$

No. 89 — NUMBER OF DAYS IN OPERATION DURING THE YEAR, 2445.

Highest Individual Earnings.

	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
1883.																				
January,	\$3 00	15	\$43 00	17	\$54 00	19	\$40 00	19	\$33 00	17	\$43 00	17	\$5 00	15	\$45 00	19	\$55 00	19	\$53 00	16
February,	48 00	14	41 00	15	49 00	22	38 00	15	30 00	15	40 00	17	41 00	23	46 00	16	46 00	16	53 00	21
March,	102 00	21	71 00	24	75 00	25	102 00	21	43 00	23	51 00	22	74 00	27	43 00	23	59 00	23	53 00	27
April,	82 0	22	83 00	23	64 00	24	86 00	24	59 0	24	62 00	24	72 00	25	59 00	24	3 00	22	44 00	24
May,	74 00	25	87 00	26	73 00	25	74 00	25	72 00	25	65 00	25	67 00	26	71 00	25	51 0	25	61 00	24
June,	75 00	26			77 00	23	75 00	26	84 00	25	70 00	25	59 00	26	88 00	26				
July,	46 00	15	43 00	12	54 00	15	46 00	15	61 00	17	44 00	16	36 00	22	48 00	14	33 00	13	45 00	21
August,	44 00	19			68 00	25	44 00	19	80 00	25	69 00	25	59 00	27	56 00	25	57 00	26	49 00	18
September,	49 0	20			57 00	21	35 00	18	74 00	20	41 00	19	64 00	21	49 00	23	59 00	22	43 00	25
October,	57 00	24	65 00	23	14 00	6	46 00	24	60 00	25	68 00	26	63 00	24	62 00	24	69 00	27	63 00	26
November,	67 00	23	78 00	23	65 00	24	53 00	22	53 00	22	77 00	24	64 00	24	49 00	22	90 00	23	69 00	24
December,	69 00	20	49 00	20	54 00	21	45 00	20			35 00	13	54 00	21	43 00	21	46 00	20	64 00	21
Total,	\$747 00	244	\$565 00	184	\$704 00	250	\$634 00	246	\$649 00	238	\$663 00	253	\$715 00	281	\$659 00	232	\$655 00	265	\$639 00	269

Lowest Individual Earnings.

January,	\$34 00	17	\$17 00	19	\$36 00	18	\$23 00	13	. . . . .	17	\$38 00	16	\$19 00	19	\$29 00	17	\$18 00	17	\$12 00	17
February,	27 00	15	20 00	14	23 00	11	48 00	24	48 00	15	33 00	15	10 00	15	23 00	13	19 00	13	19 00	13
March,	40 00	23	48 00	25	44 00	24	32 00	17	32 00	21	45 00	21	45 00	21	39 00	24	44 00	24	44 00	24
April,	48 00	22	56 00	22	64 00	2	43 00	16	47 00	23	57 00	24	58 00	23	34 00	18	44 00	18	44 00	18
May,	79 00	25	57 00	25	59 00	25	43 00	15	45 00	22	38 00	19	56 00	25	60 00	23	42 00	23	42 00	23
June,	69 00	24	53 00	24	56 00	25	31 00	15	45 00	23	36 00	25	43 00	22	39 00	22	41 00	25	41 00	25
July,	22 00	13	31 00	15	39 00	16	34 00	19	34 00	15	11 00	7	23 00	15	27 00	15	26 00	14	26 00	14
August,	33 00	15	48 00	22	50 00	22	51 00	25	51 00	20	28 00	18	39 00	23	42 00	23	36 00	24	21 00	13
September,	32 00	20	45 00	18	36 00	19	38 00	19	33 00	25	28 00	18	34 00	20	9 00	7	53 00	21	11 00	7
October,	46 00	25	46 00	21	47 00	26	49 00	24	49 00	24	48 00	26	44 00	25	45 00	23	44 00	26	44 00	26
November,	53 00	23	55 00	18	4 00	22	36 00	16	36 00	17	60 00	23	45 00	22	28 00	28	32 00	20	32 00	21
December,	46 00	21	32 00	15	27 00	20	34 00	17	30 00	15	37 00	18	21 00	18	33 00	20	18 00	17	18 0	17
Total,	\$520 00	243	\$508 00	241	\$519 00	251	\$419 00	205	\$410 00	202	\$424 00	214	\$453 00	249	\$408 00	231	\$417 00	242	\$330 00	218

No. 90.—NUMBER OF DAYS IN OPERATION DURING THE YEAR, 243 3-4.
Highest Individual Earnings.

	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
1888.																				
January,	\$1 82	22½	\$1 75	22½	\$55 46	22½	\$57 57	22½	\$70 67	22½	\$89 69	22½	\$73 83	22½	\$80 12	22½	\$87 92	22½	\$63 02	22½
February,	92 57	22½	76 75	22½	71 46	22½	54 51	22½	59 11	22½	87 40	22½	72 24	22½	64 57	22½	82 86	22½	78 75	22½
March,	54 89	18½	66 43	18½	38 33	18½	35 40	18½	37 77	18½	46 24	18½	47 96	18½	38 21	18½	54 97	18½	69 28	18½
April,	119 34	16½	80 55	16½	67 17	16½	72 53	16½	57 58	16½	90 57	16½	80 83	16½	51 23	16½	50 88	16½	53 92	16½
May,	101 41	14½	86 70	14½	80 85	14½	77 42	14½	72 22	14½	89 81	14½	68 63	14½	77 85	14½	56 47	14½	58 50	14½
June,	104 71	15½	74 53	15½	45 98	15½	78 69	15½	70 07	15½	104 21	15½	93 66	15½	92 52	15½	48 79	15½	47 26	15½
July,	132 01	18½	85 11	18½	92 68	18½	64 91	18½	62 21	18½	67 61	18½	84 84	18½	79 25	18½	87 13	18½	71 39	18½
August,	8 41	2½	132 64	2½	109 22	2½	95 61	2½	86 22	2½	127 16	2½	117 08	2½	111 20	2½	98 30	2½	115 09	2½
September,	110 74	22½	75 00	22½	97 66	22½	85 06	22½	75 73	22½	99 30	22½	87 62	22½	87 93	22½	81 96	22½	71 42	22½
October,	79 57	20½	78 10	20½	85 32	20½	79 86	20½	87 88	20½	114 57	20½	100 14	20½	73 01	20½	94 28	20½	97 24	20½
November,	72 01	17	80 75	17	90 07	17	65 78	17	63 80	17	72 22	17	90 27	17	74 22	17	40 60	17	51 83	17
December,	37 00	12	112 05	19	61 31	19	52 27	19	53 06	19	110 34	19	67 26	19	57 21	19	37 33	19	35 40	19
Total,	\$989 48	204½	\$1,030 36	214½	\$395 01	235½	\$23 61	242	\$796 32	242	\$1,123 95	243½	\$389 91	243½	\$386 90	235½	\$820 99	240	\$808 15	243½

Lowest Individual Earnings.

January,	\$6 90	25½	\$7 18	23½	\$42 78	22½	\$33 34	22½	\$22 78	22½	\$70 32	22½	\$11 49	22½	\$42 59	19½	\$38 94	22½	\$41 49	22½
February,	62 67	24½	53 82	24½	52 78	24½	50 71	24½	34 26	24½	65 72	24½	29 65	24½	59 11	24½	52 20	24½	61 89	24½
March,	35 60	15½	29 54	15½	28 06	15½	31 74	15½	40 90	15½	31 31	15½	18 94	15½	31 13	15½	26 18	15½	32 60	15½
April,	33 52	16½	27 04	16½	27 15	16½	48 77	16½	40 25	16½	49 65	16½	27 89	16½	34 07	16½	80 15	16½	32 64	16½
May,	33 47	14½	33 26	14½	27 75	14½	41 52	14½	44 75	14½	31 12	14½	39 23	14½	38 55	14½	21 41	14½	30 86	14½
June,	37 36	15½	35 67	15½	38 39	15½	39 63	15½	35 38	15½	42 61	15½	80 35	15½	30 75	15½	29 58	15½	30 64	15½
July,	44 75	18½	48 39	18½	36 97	18½	55 52	18½	40 07	18½	58 27	18½	48 86	18½	40 13	18½	46 91	18½	45 39	18½
August,	71 59	22½	78 23	22½	63 84	22½	87 43	22½	45 55	22½	75 60	22½	55 51	22½	60 34	22½	63 02	22½	56 07	22½
September,	57 51	22½	57 12	22½	53 13	22½	78 87	22½	33 15	22½	58 42	22½	34 16	22½	36 05	22½	57 20	22½	65 72	22½
October,	58 54	20½	64 62	20½	42 53	20½	77 72	20½	48 42	20½	74 78	20½	53 89	20½	51 04	20½	51 15	20½	51 39	20½
November,	68 51	22½	43 01	22½	34 69	22½	54 38	22½	39 09	22½	66 45	22½	43 37	22½	47 54	22½	48 68	22½	46 36	22½
December,	33 56	19	42 82	19	39 44	19	54 13	19	41 28	19	49 42	19	35 97	19	31 82	17	46 51	19	38 55	19
Total,	\$98 98	244½	\$65 70	24½	\$501 50	239½	\$54 76	243½	\$190 88	22½	\$353 67	241½	\$458 81	238½	\$504 12	234½	\$514 96	24½	\$338 60	240½

NO. 91.—NUMBER OF DAYS IN OPERATION DURING THE YEAR, 301.
Highest Individual Earnings.

	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
1888																				
January,	\$6 82	19	\$47 40	19	\$18 17	21	\$ 6 48	19	\$45 61	18	\$19 51	18	\$62 51	17	\$38 41	20	\$14 58	22	\$24 11	13
February,	13 09	23	55 50	22	9 55	22	59 70	23	54 67	19	35 69	23	46 89	22	33 13	23	43 59	23	37 51	25
March,	31 09	26	105 61	22	39 35	22	73 40	26	61 93	24	49 22	26	86 65	23	97 26	26	60 51	25	37 21	19
April,	24 05	19	42 40	25	31 69	23	37 61	24	30 21	18	39 72	25	36 61	24	25 74	26	41 30	25	56 81	21
May,	26 62	23	32 27	26	35 03	23	40 74	23	31 93	24	42 88	25	39 87	26	36 20	26	52 15	21	42 24	21
June,	39 99	25	31 35	22	26 48	24	38 07	25	49 55	24	42 81	26	32 31	23	41 76	24	25 76	23	40 94	21
July,	22 67	25	33 63	23	25 52	23	23 70	21	25 08	23	28 77	25	40 51	25	26 57	23	40 69	25	33 71	25
August,	25 85	22	20 18	23	23 40	24	21 06	26	62 26	23	55 97	26	37 79	23	43 15	25	43 59	26	47 29	24
September,	26 36	25	25 08	21	7 85	23	16 80	23	39 83	25	31 65	20	37 33	22	36 22	23	42 11	23	40 27	25
October,	31 82	24	28 68	23	33 67	25	31 98	21	35 55	25	38 58	25	40 94	27	47 68	22	31 15	25	33 08	17
November,	33 77	21	32 31	24	39 06	21	33 68	21	28 73	25	22 30	22	46 36	26	40 33	20	36 33	23	33 34	21
December,	13 99	24	25 03	21	39 58	20	14 47	23	21 98	24	26 66	20	32 92	23	23 95	19	30 15	21	15 57	6
Total,	\$109 37	227	\$326 09	273	\$720 72	276	\$709 07	283	\$698 62	275	\$670 73	292	\$663 01	269	\$659 85	288	\$319 60	279	\$6.0 07	264

Lowest Individual Earnings.

January,	\$12 38	18	\$18 10	16	\$25 19	21	\$17 02	21	\$19 91	19	\$20 19	20	\$29 36	18	\$27 97	17	\$31 44	21	\$27 56	21
February,	13 09	8	21 29	23	32 76	20	30 92	22	26 51	19	32 66	20	26 01	22	35 59	19	28 87	20	32 13	22
March,	31 09	26	25 70	26	17 69	23	47 08	26	50 19	24	41 39	21	31 14	21	46 32	26	38 29	25	41 75	22
April,	24 05	19	42 40	25	31 69	23	37 61	24	30 21	18	39 72	25	36 61	24	25 74	26	41 30	24	56 81	21
May,	26 62	23	32 27	26	35 03	23	40 74	23	31 93	24	42 88	25	39 87	26	36 20	26	52 15	25	42 24	21
June,	39 99	25	31 35	22	26 48	24	38 07	25	49 55	24	42 81	26	32 31	23	41 76	24	25 76	23	40 94	21
July,	22 67	25	33 63	23	25 52	23	23 70	21	25 08	23	28 77	25	40 51	25	26 57	23	40 69	25	33 71	25
August,	25 85	22	20 18	23	23 40	24	21 06	26	62 26	23	55 97	26	37 79	23	43 15	25	43 59	26	47 29	24
September,	26 36	25	25 08	21	7 85	23	16 80	23	39 83	25	31 65	20	37 33	22	36 22	23	42 11	23	40 27	25
October,	31 82	24	28 68	23	33 67	25	31 98	21	35 55	25	38 58	25	40 94	27	47 68	22	31 15	25	33 08	17
November,	33 77	21	32 31	24	39 06	21	33 68	21	28 73	25	22 30	22	46 36	26	40 33	20	36 33	23	33 34	21
December,	13 99	24	25 03	21	39 58	20	14 47	23	21 98	24	26 66	20	32 92	23	23 95	19	30 15	21	15 57	6
Total,	\$300 65	260	\$336 02	273	\$337 90	273	\$356 13	282	\$421 79	273	\$429 58	278	\$431 20	288	\$431 93	264	\$442 06	281	\$448 77	252

No. 92.—NUMBER OF DAYS IN OPERATION DURING THE YEAR, 2531-2.
Highest Individual Earnings.

	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
1883.																				
January,	\$4 36	24	\$85 86	20	\$87 13	23	\$55 73	24	\$92 89	23	\$49 04	24	\$31 00	24	\$73 78	24	\$39 54	22	\$33 51	23
February,	67 71	25	65 89	23	76 25	24	81 63	25	81 95	22	43 40	25	34 62	24	68 79	24	27 13	9	42 67	24
March,	117 37	25	79 79	25	90 60	25	89 54	25	62 95	21	43 46	25	7 61	25	48 70	23	33 32	20	44 07	25
April,	77 70	25	60 49	21	69 65	25	60 61	24	57 97	24	60 79	25	44 82	24	50 51	25	41 95	25	56 79	25
May,	55 42	19	53 85	19	43 09	19	44 27	19	47 73	19	41 33	19	39 41	19	34 94	19	46 66	19	48 70	19
June,	73 31	25	60 01	25	61 30	25	63 12	25	48 87	19	53 06	25	34 77	23	39 51	25	61 79	25	33 12	25
July,	71 27	24	63 19	24	57 03	23	49 32	22	69 57	24	58 04	24	80 54	24	32 24	17	73 41	24	42 63	23
August,	87 35	26	100 70	25	95 99	26	57 52	21	77 59	24	80 06	23	94 63	16	61 59	26	64 28	26	46 42	25
September,	54 04	22	101 37	25	85 68	25	52 41	21	74 49	25	89 4	25	86 4	25	49 15	24	34 22	24	43 93	23
October,	86 46	26	114 69	27	87 81	27	100 59	20	69 45	23	92 46	27	85 39	27	58 17	27	53 97	27	51 04	24
November,	73 18	25	57 85	19	77 45	25	77 04	24	62 43	23	75 72	25	69 15	25	41 04	25	51 31	23	42 02	23
December,	62 65	24	59 72	24	67 31	24	68 27	24	57 35	23	65 19	24	79 94	23	38 55	24	30 08	23	28 48	23
Total,	\$915 22	290	\$909 51	277	\$899 39	291	\$821 08	274	\$803 24	270	\$766 00	294	\$728 65	289	\$598 37	283	\$565 63	267	\$513 38	282

Lowest Individual Earnings.

January,	\$35 73	24	\$55 43	24	\$36 76	22	\$23 25	12	\$50 85	23	\$25 04	17	\$60 75	24	\$56 66	22	\$46 18	23	\$47 25	24
February,	38 09	25	70 49	20	28 75	2	34 76	25	49 11	24	43 61	24	40 12	22	57 29	24	47 77	22	65 62	25
March,	42 92	23	39 63	23	17 61	19	21 31	20	49 37	25	60 17	23	33 41	25	38 53	23	44 05	24	40 25	25
April,	23 82	25	5 12	6	27 86	25	26 03	19	36 44	25	41 34	23	41 02	25	47 10	25	37 03	25	27 55	25
May,	33 43	19	19 91	18	24 07	19	27 46	19	26 93	19	32 78	17	28 65	19	29 29	19	33 25	18	23 80	19
June,	30 76	25	41 56	25	47 39	25	34 18	25	33 21	25	38 4	24	28 87	25	32 08	21	29 59	24	35 76	25
July,	34 43	24	32 03	24	35 36	24	26 68	24	19 47	19	50 33	24	27 89	23	39 37	24	39 76	24	29 76	24
August,	43 74	25	57 43	25	47 76	21	71 22	25	46 45	26	59 62	22	51 60	26	55 74	26	46 74	24	70 07	26
September,	22 81	15	41 60	18	52 11	20	59 10	25	55 62	24	42 07	18	57 22	16	44 43	22	53 36	23	55 47	24
October,	35 61	23	14 91	10	55 67	26	48 40	27	32 47	25	21 63	12	44 58	27	41 11	25	45 00	26	47 93	27
November,	35 43	24	25 30	15	40 75	24	41 71	24	39 12	24	24 36	17	45 61	25	28 50	19	38 70	24	36 06	25
December,	27 34	20	29 26	24	43 53	24	26 46	24	38 39	24	42 11	23	29 43	23	39 72	24	31 23	23	24 43	22
Total,	\$409 11	272	\$433 27	232	\$457 67	271	\$471 06	269	\$477 49	283	\$431 43	244	\$489 15	230	\$509 87	274	\$507 25	282	\$513 38	291

No. 93.—NUMBER OF DAYS IN OPERATION DURING THE YEAR, 216 4-10.
Highest Individual Earnings.

	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
1888.																				
January,	\$53 77	20 7	\$53 76	20 7	\$112 63	21 7	\$112 61	21 7	\$65 78	21 7	\$48 77	21 7	\$79 40	21 7	\$80 36	16 7	\$65 89	21 7		
February,	72 86	19 2	72 87	19 2	17 55	19 2	17 54	19 2	67 47	19 2	75 81	19 2	38 16	19 2	140 11	19 2	45 69	19 2		
March,	54 14	16 3	54 14	16 3	89 81	16 3	89 82	16 3	77 72	16 3	84 14	16 3	59 69	16 3	15 36	16 3	84 78	16 3		
April,	74 99	20 3	74 99	20 3	64 92	20 3	64 91	20 3	70 12	20 3	88 27	20 3	60 30	20 3	68 62	20 3	65 04	20 3		
May,	58 23	21	58 23	21	88 59	21	88 60	21	68 10	21	78 21	21	64 40	21	142 77	21	62 50	21		
June,	64 09	19 3	64 08	19 3	64 31	19 3	64 30	19 3	56 48	19 3	57 60	19 3	43 71	19 3	96 61	19 3	93 22	19 3		
July,	70 98	21 3	70 97	21 3	41 00	21 3	40 99	21 3	73 98	1 3	93 28	21 3	57 07	21 3	121 37	21 3	91 02	21 3		
August,	79 70	25	79 69	25	41 00	25	40 99	25	67 31	25	78 42	25	85 13	25	100 93	25	52 33	25		
September,	71 29	18 9	71 29	18 9	75 13	18 9	75 13	18 9	64 32	18 9	64 34	18 9	57 02	18 9	76 09	18 9	81 89	18 9		
October,	91 38	25 4	91 39	25 4	73 60	25 4	73 59	25 4	62 28	25 4	116 00	25 4	77 02	25 4	73 60	20 4	59 17	25 4		
November,	69 63	22 1/2	69 63	22 1/2	89 35	22 1/2	89 33	22 1/2	55 07	22 1/2	131 31	22 1/2	70 42	22 1/2	40 09	20 6	73 95	20 6		
December,	53 91	15 1/4	53 90	15 1/4	72 17	15 1/4	72 16	15 1/4	85 37	15 1/4	89 71	14 1/4	37 05	15 1/4	50 02	18 3	58 55	18 3		
Total,	\$815 02	245 1/2	\$814 69	245 1/2	\$836 53	246 1/2	\$836 45	246 1/2	\$853 57	246 1/2	\$814 60	246 1/2	\$1 011 86	242 4	\$760 37	246 1/2	\$1 005 93	227 3	\$836 93	247 3

Lowest Individual Earnings.

January,	\$35 23	21 7	\$35 53	21 7	\$38 45	21 7	\$35 70	21 7	\$35 00	21 7	\$40 31	21 7	\$49 88	22	\$49 89	22	\$24 61	21 7	\$35 51	21 27
February,	27 53	19 2	42 49	19 2	89 27	19 2	48 73	17 2	38 09	19 2	42 57	19 2	29 93	14	29 75	14	33 95	19 2	48 72	17
March,	26 82	16 3	23 84	16 3	31 06	16 3	24 18	11	39 53	15 3	51 74	14 3	31 08	14	29 22	13	46 01	18 3	24 19	11
April,	37 82	20 3	40 70	20 3	69 51	20 3	52 98	18 3	48 51	20 3	31 80	20 3	43 30	20 3	43 30	20 3	50 52	18 3	53 00	18 3
May,	41 70	21	33 55	21	53 03	21	47 63	21	41 68	21	25 05	15	44 69	21	42 72	21	34 12	21	47 62	21
June,	26 82	19 3	23 85	12	34 07	19 3	33 54	19 3	35 11	19 3	43 64	19 3	54 32	16	54 32	16	40 52	19 3	33 54	19 3
July,	55 48	21 3	40 48	21 3	91 97	20 3	43 89	21 3	41 22	21 3	50 53	20 3	40 93	21 3	41 93	20 3	39 46	21 3	43 89	21 3
August,	42 73	25	45 05	25	37 91	25	63 14	25	37 14	21	53 66	25	57 60	25	56 99	25	50 87	25	34 78	25
September,	41 95	18 9	30 12	18 9	18 15	8 3	34 76	16 3	33 05	18 3	29 26	18 3	38 32	18 3	33 32	18 3	35 89	16	51 76	16 3
October,	26 34	23	51 02	25 4	59 45	25 4	57 75	25 4	36 12	24 4	47 96	25 4	54 67	25 4	54 66	25 4	48 20	23	49 99	25 4
November,	37 69	22	41 77	22 1/2	42 67	21	49 99	22 1/2	3 61	21	46 58	21 1/2	56 43	22 1/2	56 43	22 1/2	39 65	19	37 09	22 1/2
December,	33 67	15 1/4	26 89	14	45 34	15 1/4	37 10	15 1/4	38 35	15 1/4	37 69	15 1/4	31 09	15 1/4	31 07	15 1/4	28 51	15 1/4	63 84	15 1/4
Total,	\$433 28	243 1/2	\$435 29	237 3/8	\$560 88	243 1/2	\$523 10	234 6	\$462 44	236 1/2	\$500 82	235 1/2	\$531 64	235 4	\$528 60	233 4	\$475 71	235 1/2	\$526 93	234 5

NO. 94.—NUMBER OF DAYS IN OPERATION DURING THE YEAR, 231.
Highest Individual Earnings.

	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
1888.																				
January,	\$3 04	22	\$3 04	22	\$3 04	22	\$3 04	22	\$3 04	22	\$6 02	23	\$6 02	23	\$6 24	21	\$6 24	21	\$43 96	23
February,	55 06	26	55 06	26	55 06	26	55 06	26	55 06	26	29 18	13	29 18	13	41 30	20	41 30	20	43 40	20
March,	60 94	23	60 94	23	60 94	23	60 94	23	60 94	23	53 75	23	53 75	23	35 89	20	35 89	20	50 98	21
April,	43 79	23	43 79	23	43 79	23	43 79	23	43 79	23	60 85	22	60 85	22	41 04	18	41 04	18	51 28	23
May,	77 78	22	77 78	22	77 78	22	77 78	22	77 78	22	65 06	24	65 06	24	9 87	7	9 87	7	55 11	22
June,	68 04	23	68 04	23	68 04	23	68 04	23	68 04	23	54 19	23	54 19	23	16 20	13	16 20	13	47 99	20
July,	64 47	21	64 47	21	64 47	21	64 47	21	64 47	21	49 84	20	49 84	20	47 38	23	47 38	23	44 27	19
August,	69 22	25	69 22	25	69 22	25	69 22	25	69 22	25	48 34	23	48 34	23	61 2	24	61 2	24	45 21	16
September,	61 20	25	61 20	25	61 20	25	61 20	25	61 20	25	44 25	24	44 25	24	63 85	23	63 85	23	32 13	22
October,	56 56	24	56 56	24	56 56	24	56 56	24	56 56	24	43 31	24	43 31	24	38 84	16	38 84	16	44 87	24
November,	71 48	23	71 48	23	71 48	23	71 48	23	71 48	23	29 39	20	29 39	20	70 17	25	70 17	25	44 23	24
December,	71 41	20	71 41	20	71 41	20	71 41	20	71 41	20	70 80	24	70 80	24					66 37	25
Total,	\$732 99	277	\$732 99	277	\$732 99	277	\$732 99	277	\$732 99	277	\$613 98	263	\$613 98	263	\$492 00	210	\$492 00	210	\$569 80	259

Lowest Individual Earnings.

January,	\$37 93	21	\$21 83	21	\$21 83	21	\$41 77	21	\$35 33	18	\$35 33	18	\$35 33	18	\$35 33	18	\$35 33	18	\$61 36	24
February,	30 99	17	8 04	6	8 04	6	32 03	15	34 58	17	29 18	13	34 58	17	26 40	14	27 88	15	23 51	12
March,	26 34	18	26 80	15	26 80	15	25 30	15	26 40	14	38 19	12	26 40	14	35 19	12	32 03	21	37 73	16
April,	27 83	20	24 96	16	24 96	16	41 36	20	38 19	12	55 52	17	38 19	12	55 52	17	31 40	20	39 81	19
May,	34 34	23	31 34	19	31 34	19	32 04	24	55 52	17	37 56	14	55 52	17	37 56	14	25 74	19	46 97	22
June,	22 70	19	33 18	16	33 18	16	27 92	18	33 18	16	15 52	12	37 56	14	18 87	13	33 68	22	35 88	23
July,	27 02	18	31 57	21	34 45	15	53 06	20	34 45	15	8 06	2	15 52	12	12 15	10	26 11	21	24 33	15
August,	32 03	21	14 84	12	14 84	12	15 19	6	32 85	20	16 37	15	8 06	2	29 32	20	30 05	23	24 04	17
September,	33 56	23	32 85	23	32 85	23	39 02	19	32 85	20	39 02	19	33 77	20	39 02	22	40 54	23	44 66	18
October,	30 68	21	34 01	23	34 01	23	36 82	18	34 01	23	36 82	18	33 73	19	36 29	18	29 26	21	60 87	23
November,	32 27	21	35 76	26	35 76	26	39 08	20	35 76	26	39 08	20	36 29	18	36 29	18	42 32	22	73 27	23
December,	33 70	20	34 88	20	34 88	20			34 88	20			36 29	18						
Total,	\$369 45	242	\$332 94	233	\$332 94	233	\$397 96	211	\$332 94	233	\$368 28	171	\$368 28	171	\$363 73	175	\$387 37	241	\$473 43	21

No. 95.—NUMBER OF DAYS IN OPERATION DURING THE YEAR, 228.
Highest Individual Earnings.

	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
1888.																				
January,	\$3 64	22	\$71 79	22	\$91 40	22	\$93 00	22	\$71 80	21	\$36 40	14	\$53 13	22	\$63 66	21	\$75 07	22	\$62 14	21
February,	57 60	15	43 15	14	42 55	15	62 00	17	56 62	15	37 90	14	44 74	16	66 90	17	61 50	17	58 78	15
March,	65 31	20	18 20	22	63 72	18	53 40	15	24 39	16	75 69	21	32 88	12	43 36	16	73 92	22	36 61	17
April,	68 33	20	56 35	21	44 99	12	41 76	14	60 18	28	39 59	17	36 40	12	59 55	17	49 07	21	55 55	27
May,	114 77	22	95 43	24	41 01	21	55 60	20	53 23	22	68 97	22	42 04	13	72 00	21	68 53	23	49 76	22
June,	47 30	19	55 72	23	40 49	14	48 55	17	59 19	24	20 71	11	29 27	11	46 87	16	27 19	14	50 43	22
July,	80 73	24	83 46	25	77 66	21	49 50	23	66 70	20	60 98	19	64 06	20	64 11	20	61 98	19	70 87	22
August,	123 17	24	105 08	27	89 48	26	74 23	25	58 45	13	81 21	25	65 89	22	69 09	21	78 63	25	42 61	22
September,	43 14	19	113 23	21	76 81	20	67 80	13	89 12	13	44 96	20	62 10	17	45 47	19	31 40	14	47 92	24
October,	63 43	18	72 55	24	79 50	25	1 80	27	102 83	16	86 88	26	73 09	21	40 90	27	40 90	19	43 34	21
November,	86 37	22	95 91	23	73 67	23	69 30	23	63 99	22	71 33	20	55 59	19	54 16	20	37 18	18	49 35	18
December,	86 53	21	88 34	23	74 99	21	47 10	21	53 36	18	73 38	19	65 62	20	53 35	19	72 67	22	61 13	22
Total,	\$923 37	246	\$949 26	269	\$801 27	238	\$780 09	242	\$774 59	243	\$698 00	228	\$629 72	210	\$679 02	234	\$679 74	236	\$628 49	253

Lowest Individual Earnings.

January,	\$45 43	19	\$41 37	21	\$40 07	21	\$39 72	14	\$25 42	16	\$33 04	21	\$28 59	18	\$27 65	18	\$27 46	17	\$42 92	22
February,	36 32	14	29 14	15	27 98	14	11 57	10	21 98	14	22 97	14	22 62	12	24 21	13	21 27	13	27 17	15
March,	30 64	18	24 81	14	38 01	18	23 83	13	30 05	19	34 19	19	27 56	15	32 56	18	32 64	18	53 12	19
April,	31 75	14	31 64	13	15 25	21	30 47	14	16 65	12	35 92	14	17 98	11	33 68	11	24 57	13	23 20	14
May,	31 60	19	38 93	20	49 04	20	32 26	19	24 75	16	35 01	18	31 99	17	35 23	11	33 40	18	36 97	19
June,	28 99	17	25 83	17	27 45	17	31 69	17	27 91	16	19 97	17	23 81	15	25 76	17	23 15	15	22 55	17
July,	49 47	23	48 72	20	56 75	23	30 38	14	43 18	19	44 54	23	34 30	20	36 96	22	36 47	21	29 99	24
August,	54 83	26	59 19	26	56 92	26	57 96	25	52 30	21	62 92	26	33 35	20	38 22	23	37 12	24	28 88	23
September,	55 67	20	43 75	20	40 47	19	35 84	19	35 25	17	38 95	19	41 78	21	18 01	12	32 28	22	34 81	20
October,	51 71	24	43 41	17	45 55	26	42 81	27	42 41	27	29 46	22	41 06	22	35 70	19	32 54	25	43 86	23
November,	40 75	21	33 03	22	46 75	22	43 05	20	32 40	20	11 64	11	38 31	20	29 66	20	39 95	12	31 81	22
December,	22 41	21	38 58	21	34 03	20	37 71	22	10 58	8	28 53	18	36 73	21	13 50	9	34 67	19	33 74	19
Total,	\$482 67	236	\$463 42	236	\$484 97	247	\$417 49	214	\$369 88	205	\$397 14	222	\$378 08	212	\$351 14	203	\$375 42	227	\$384 02	237

No. 96.—NUMBER OF DAYS IN OPERATION DURING THE YEAR, ———.
Highest Individual Earnings.

	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
1888.																				
January,	\$77 80	25	\$77 80	25	\$47 96	21	\$74 54	24	\$74 11	24	\$64 46	24	\$61 30	24	\$66 48	24	\$60 94	23	\$65 34	22
February,	74 55	23	74 55	23	45 75	23	74 75	23	75 26	22	57 35	23	47 46	22	51 64	21	52 10	23	52 61	22
March,	81 42	24	81 42	24	63 21	18	88 13	24	65 30	25	66 63	23	63 6	15	78 00	24	58 45	25	46 71	23
April,	52 05	20	52 05	20			31 17	16	81 14	21	66 87	21	54 84	19	66 39	21	48 65	21	33 33	8
May,	65 04	23	65 04	23			51 92	23	62 28	22	50 67	21	61 31	23	53 12	23	43 62	23		
June,	57 37	22	57 37	22			67 34	22	68 58	22	52 55	22	47 87	21	53 25	22	56 80	21		
July,	50 90	25	50 90	25			62 04	22	51 67	24	66 53	24	48 91	22	63 61	23	60 65	23	41 53	19
August,	62 57	21	62 57	21			63 71	22	63 58	24	34 47	16	57 12	24	54 69	20	51 72	24	64 21	23
September,	66 73	24	66 73	24			43 66	17	81 19	22	66 04	24	66 97	22	56 93	20	63 43	22	52 41	22
October,	79 24	24	79 24	24					73 35	25	82 48	26	63 68	27	59 93	19	83 85	27	64 62	22
November,	48 81	24	48 81	24					72 13	24	58 45	24	37 17	16	48 90	24	52 71	22	71 23	23
December,	37 15	17	37 15	17			23 30	12	41 97	17	40 44	17	35 72	17	29 66	16	41 62	17	53 31	17
Total,	\$754 03	272	\$754 03	272	\$696 33	238	\$585 96	195	\$801 16	273	\$767 94	265	\$675 41	252	\$666 77	257	\$674 54	271	\$579 32	213

Lowest Individual Earnings.

	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
January,	\$21 21	12	\$32 73	18	\$55 85	24	\$62 32	24	\$50 24	20	\$63 26	24	\$26 37	12	\$37 00	19	\$38 15	20	\$28 94	20
February,	35 65	13	53 80	23	52 42	21	59 31	21	36 78	22	47 97	23	65 58	13	37 32	16	45 92	20	61 16	19
March,	31 09	13	44 30	22	40 00	19	64 09	25	43 35	22	40 11	19	18 01	8	42 76	15	37 24	16	75 52	21
April,	38 21	11	64 20	21	45 33	21	54 93	21	19 23	9	42 75	17	7 50	5	35 12	14	29 24	16	22 64	10
May,	40 33	16	63 60	23	36 18	22	43 96	15	39 45	23	48 23	23			32 73	16	33 34	18	19 55	12
June,	36 39	19	58 92	21	39 06	20	56 56	21	33 42	20	49 83	22	38 36	16	30 43	9	54 15	31	40 01	16
July,	50 33	22	36 69	20	47 59	23	52 36	24	47 57	24	65 75	24	30 55	11	32 44	19	38 16	18	43 72	16
August,	36 51	18	45 85	19	47 04	24	68 04	24	43 23	24	42 33	23	48 07	22	19 30	19	47 05	22	25 64	18
September,	42 31	17	51 22	20	56 69	24	53 14	23	49 24	22	53 68	23	37 90	22	24 56	12	28 04	29	41 59	18
October,	52 46	24	59 27	25	59 35	24	63 29	27	51 40	26			51 30	27	50 32	23	28 04	27	41 59	18
November,	35 21	17	42 90	21	55 31	23	56 48	24	58 62	24			61 57	23	57 72	24	20 44	13	38 93	18
December,	28 53	9	27 45	17	36 85	17	13 07	11	20 77	17	5 18	2	22 39	16	27 65	17	29 27	14	30 19	13
Total,	\$449 63	191	\$585 93	250	\$571 27	259	\$657 55	260	\$500 30	253	\$459 19	200	\$408 00	187	\$407 25	203	\$442 31	225	\$456 13	197

No. 97.—NUMBER OF DAYS IN OPERATION DURING THE YEAR, 265 1-2.
Highest Individual Earnings.

	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
1897.																				
November, . . .	\$62 00	23 5	\$63 00	23 5	\$52 00	23 5	\$60 00	23 5	\$52 00	23 5	\$54 00	23 5	\$56 00	23 5	\$52 00	23 5	\$54 00	23 5	\$52 00	23 5
December, . . .	59 00	25	61 00	25	64 00	25	63 00	25	69 00	25	53 00	25	60 00	25	60 00	25	50 00	25	50 00	25
January, 1898, . .	85 00	23½	61 00	23½	53 00	23½	56 00	23½	56 00	23½	59 00	23½	58 00	23½	60 00	23½	52 00	23½	58 00	23½
February, . . .	58 00	16 5	53 00	16 5	58 00	16 5	97 00	16 5	56 00	16 5	57 00	16 5	6 00	16 5	54 00	16 5	56 00	16 5	52 00	16 5
March, . . .	50 00	13 5	46 00	13 5	42 00	13 5	40 00	13 5	44 00	13 5	46 00	13 5	48 00	13 5	49 00	13 5	4 00	13 5	49 00	13 5
April, . . .	44 00	18	51 00	18	53 00	18	48 00	18	48 00	18	45 00	18	48 00	18	47 00	18	46 00	18	47 00	18
May, . . .	55 00	21½	55 00	21½	53 00	21½	60 00	21½	54 00	21½	59 00	21½	52 00	21½	61 00	21½	57 00	21½	56 00	21½
June, . . .	65 00	27½	63 00	27½	71 00	27½	67 00	27½	69 00	27½	68 00	27½	63 00	27½	86 00	27½	70 00	27½	73 00	27½
July, . . .	58 00	25	64 00	25	64 00	25	61 00	25	67 00	25	60 00	25	64 00	25	74 00	25	73 00	25	97 00	25
August, . . .	64 00	26½	67 00	26½	61 00	26½	64 00	26½	74 00	26½	73 00	26½	72 00	26½	97 00	26½	86 00	26½	78 00	26½
September, . . .	61 00	23 5	68 00	23 5	60 00	23 5	57 00	23 5	80 00	23 5	69 00	23 5	67 00	23 5	59 00	23 5	56 00	23 5	57 00	23 5
October, . . .	48 00	21 5	53 00	21 5	69 00	21 5	58 00	21 5	64 00	21 5	77 00	21 5	57 00	21 5	59 00	21 5	56 00	21 5	54 00	21 5
Total, . . .	\$710 00	265 5	\$705 00	265 5	\$700 00	265 5	\$721 00	265 5	\$733 00	265 5	\$720 00	265 5	\$761 00	265 5	\$732 00	265 5	\$704 00	265 5	\$723 00	265 5

Lowest Individual Earnings.

November, 1897, . .	\$42 00	23 5	\$28 00	23 5	\$30 00	23 5	\$32 00	23 5	\$32 00	23 5	\$32 00	23 5	\$37 00	23 5	\$33 00	23 5	\$30 00	23 5	\$52 00	23 5
December, . . .	28 00	25	25 00	25	32 00	25	27 00	25	39 00	25	31 00	25	36 00	25	35 00	25	30 00	25	34 00	25
January, 1898, . .	28 00	23½	30 00	23½	33 00	23½	31 00	23½	28 00	23½	28 00	23½	27 00	23½	31 00	23½	32 00	23½	31 00	23½
February, . . .	26 00	16 5	35 00	16 5	30 00	16 5	33 00	16 5	28 00	16 5	28 00	16 5	28 00	16 5	27 00	16 5	28 00	16 5	23 00	16 5
March, . . .	29 00	13 5	20 00	13 5	22 00	13 5	28 00	13 5	22 00	13 5	24 00	13 5	30 00	13 5	23 00	13 5	28 00	13 5	26 00	13 5
April, . . .	24 00	18	22 00	18	22 00	18	21 00	18	35 00	18	23 00	18	31 00	18	26 00	18	23 00	18	20 00	18
May, . . .	23 00	21½	30 00	21½	28 00	21½	32 00	21½	28 00	21½	33 00	21½	35 00	21½	29 00	21½	29 00	21½	25 00	21½
June, . . .	41 00	27½	42 00	27½	40 00	27½	43 00	27½	41 00	27½	42 00	27½	44 00	27½	42 00	27½	46 00	27½	42 00	27½
July, . . .	42 00	25	40 00	25	40 00	25	45 00	25	40 00	25	42 00	25	41 00	25	43 00	25	42 00	25	41 00	25
August, . . .	41 00	26½	39 00	26½	42 00	26½	44 00	26½	42 00	26½	46 00	26½	45 00	26½	42 00	26½	44 00	26½	40 00	26½
September, . . .	34 00	23 5	36 00	23 5	34 00	23 5	34 00	23 5	34 00	23 5	32 00	23 5	36 00	23 5	36 00	23 5	35 00	23 5	35 00	23 5
October, . . .	33 00	21 5	34 00	21 5	32 00	21 5	36 00	21 5	34 00	21 5	26 00	21 5	34 00	21 5	36 00	21 5	32 00	21 5	34 00	21 5
Total, . . .	\$391 00	265 5	\$381 00	265 5	\$389 00	265 5	\$406 00	265 5	\$398 00	265 5	\$397 00	265 5	\$424 00	265 5	\$403 00	265 5	\$408 00	265 5	\$406 00	265 5

No. 98.—NUMBER OF DAYS IN OPERATION DURING THE YEAR, 280.
Highest Individual Earnings.

1888.	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
January,	\$99 97	23	\$46 05	21	\$54 44	20	\$88 90	24	\$89 19	23	\$48 74	21	\$45 07	24	\$51 05	21	\$49 05	13	\$41 27	19
February,	38 17	22	71 88	22	32 42	14	47 10	18	81 53	22	38 18	16	38 89	18	36 37	16	34 17	14	40 21	16
March,	31 66	24	74 73	22	56 31	23	78 30	24	73 06	24	68 96	25	69 95	25	55 13	24	55 74	22	58 60	25
April,	3 14	3	24 96	12	3 21	3	17 82	9	5 47	6	10 24	4	10 04	5	2 18	3	2 24	2	3 13	2
May,	61 70	22	67 32	25	60 28	22	61 79	25	55 53	25	56 30	26	54 32	24	52 94	17	45 15	17	51 69	23
June,	42 36	19	78 56	25	79 10	26	58 26	26	45 99	26	61 21	23	42 81	26	59 24	21	51 87	19	48 01	24
July,	40 32	26	74 29	26	61 53	22	25 49	25	93 87	25	59 40	23	40 38	22	48 72	22	55 69	23	59 85	23
August,	36 75	25	84 07	26	53 76	21	71 28	25	69 54	20	49 00	19	42 26	20	16 78	11	54 83	20	40 67	20
September,	83 01	25	27 86	18	60 09	20	72 00	24	1 69	1	35 98	16	68 62	25	59 26	23	48 63	26	33 40	15
October,	57 76	25	27 87	25	56 35	24	28 75	26	63 28	24	37 51	14	45 46	26	68 26	26	53 87	26	39 23	21
November,	109 90	26	80 09	24	57 71	22	63 24	24	63 28	24	31 04	22	33 44	24	46 95	20	22 39	14	41 57	24
December,	93 49	22																		
Total,	\$698 88	262	\$657 68	213	\$632 07	239	\$612 93	250	\$579 15	196	\$565 13	235	\$547 95	262	\$540 78	225	\$514 64	216	\$513 48	235

Lowest Individual Earnings.

1888.	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
January,	\$23 39	14	\$37 59	19	\$36 14	22	\$27 34	11	\$34 78	16	\$26 85	20	\$30 31	20	\$50 81	21	\$41 78	22	\$38 10	22
February,	15 23	15	27 68	16	19 36	17	28 56	16	11 60	16	35 61	16	18 15	15	28 83	14	29 19	17	32 61	15
March,	41 47	23	45 84	23	39 29	26	42 18	20	39 51	25	70 95	26	48 83	21	37 28	19	27 20	22	58 11	26
April,	16 43	25	4 51	5	5 79	3	5 95	4	37 43	23	39 58	18	6 63	4	4 06	5	2 89	2	8 28	6
May,	10 91	20	44 99	23	48 29	24	38 43	20	37 52	26	38 80	18	36 34	26	26 81	22	35 97	25	8 28	6
June,	28 31	25	43 28	21	52 79	25	36 05	15	32 58	26	34 32	18	38 37	24	43 88	26	47 74	25	35 93	22
July,	16 43	22	46 92	23	34 76	25	36 03	20	37 28	25	34 32	22	18 01	25	43 83	24	35 79	22	66 11	22
August,	56 76	22	33 16	21	43 77	24	39 19	21	38 57	25	36 49	19	38 49	27	14 88	8	48 11	25	42 79	20
September,	53 38	22	33 16	21	34 88	17	36 25	20	53 06	23	18 10	12	32 14	22	47 68	21	26 38	19	43 59	22
October,	39 60	23	24 65	25	14 39	18	27 03	21	31 05	19	30 34	21	36 49	18	51 11	20	40 03	25	39 21	24
November,	38 88	21	33 16	22	29 00	26	64 34	18	29 21	22	29 04	24	41 97	26	32 57	16	46 22	25	49 45	26
December,	21 50	19	24 43	21	17 69	21	32 54	21	38 93	24	27 84	25	47 10	25	35 70	20	56 26	25	36 31	25
Total,	\$345 89	234	\$366 21	219	\$376 15	248	\$377 86	187	\$383 94	244	\$387 42	221	\$392 73	253	\$407 44	226	\$437 56	254	\$450 49	230

No. 99.—NUMBER OF DAYS IN OPERATION DURING THE YEAR, 253 1-2.
Highest Individual Earnings.

	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
1888.																				
January,	\$48 40	17½	\$48 03	19	\$47 39	18½	\$45 90	18½	\$41 88	17 5	\$44 74	18 5	\$43 26	18	\$43 02	17½	\$27 53	11 5	\$26 75	10½
February,	57 80	21 5	55 52	22	55 51	21½	55 46	21 5	54 42	21½	53 27	21 5	52 84	21	50 82	20 5	31 59	13	34 21	13½
March,	49 98	20	49 49	19½	49 44	19½	49 37	20½	49 23	20	48 91	19½	48 90	19½	48 74	19½	32 19	13	31 12	12 5
April,	41 30	17 5	39 21	15	38 57	15½	37 93	15 5	37 13	15	37 11	14	36 93	15½	36 89	14½	24 02	9½	22 61	9½
May,	32 49	12	30 81	12	30 21	12½	28 99	11½	28 42	11½	28 24	11½	27 53	11 5	27 17	11 5	22 13	8 5	21 95	8 5
June,	40 16	16	39 11	15 5	38 93	15½	37 13	15	37 12	15	34 09	14	34 03	14	31 46	13½	23 29	9½	23 25	9 5
July,	52 35	20½	48 66	20	48 08	18 5	47 24	19 5	47 22	19½	47 12	19	46 51	19	45 80	19	21 33	8½	19 91	8½
August,	51 89	21	51 86	20 5	51 48	20	51 19	20	50 09	20 5	49 78	20 5	49 37	20½	48 48	20	36 48	14 5	36 09	14
September,	52 19	20	50 37	20	49 63	20½	49 39	20	49 23	20 5	14 21	20 5	48 92	20	47 97	19½	32 30	13	31 82	13 5
October,	55 16	21½	54 37	21½	54 55	22	53 91	21½	53 75	21 5	53 73	21½	53 51	21 5	52 70	22	37 45	15	34 98	14 5
November,	49 41	21½	47 68	17½	47 17	20	46 83	20	46 72	17½	45 60	18½	41 54	17 5	44 40	17	36 10	12½	33 99	12½
December,	47 72	18 5	42 20	17 5	41 31	17	41 17	16	40 93	16½	40 22	16	39 27	16½	38 66	16	31 31	12	28 90	12
Totals,	\$579 03	227 5	\$557 81	220½	\$552 32	221½	\$544 51	219	\$539 19	217	\$497 02	214 5	\$325 61	213 5	\$515 21	210½	\$358 57	141 5	\$345 58	138½

Lowest Individual Earnings.

January,	\$42 80	18	\$42 58	18	\$26 74	11½	\$26 52	10 5	\$25 38	10½	\$23 95	10½	\$23 82	10	\$23 74	11	\$23 47	11	\$20 63	9½
February,	49 02	20	48 21	20 5	33 66	13 5	31 71	12 5	31 55	12½	27 06	10½	26 38	11	25 13	11½	22 12	10	21 75	10
March,	47 51	19½	45 51	18 5	30 85	13½	30 07	13	29 28	12	29 17	11 5	27 33	11½	25 94	11½	25 20	10 5	19 51	10
April,	36 39	15	33 39	14½	22 59	9½	22 58	9½	22 27	10	22 22	9	21 81	9 5	20 27	8 5	17 17	8 5	16 77	7½
May,	26 74	11½	25 85	11 5	20 86	1 5	20 80	8 5	20 66	8½	20 63	8 5	18 21	8	17 41	7 5	16 46	7 5	16 41	6½
June,	31 58	13	30 80	12½	22 47	9½	22 36	9½	22 29	9½	22 11	9 5	21 93	9 5	21 56	9½	19 20	9	15 10	7
July,	45 40	19½	45 08	18½	18 39	7½	16 43	6 5	16 42	6 5	14 21	6½	12 90	6	12 78	5½	12 53	5 5	10 19	4½
August,	48 19	21½	47 30	19½	34 57	13½	31 34	13½	30 69	13	29 23	13½	27 74	11½	27 15	13	18 09	7 5	11 23	5 5
September,	46 66	20	46 41	20	30 81	12 5	29 31	12	28 53	12 5	28 26	11½	25 61	11	21 57	10	16 73	6 5	15 75	7
October,	50 98	21	48 54	20½	34 55	15	33 96	14 5	32 89	13 5	29 96	13	28 21	12 5	27 83	11½	15 75	8	15 72	8
November,	53 88	18½	41 47	17½	30 51	13	30 39	12 5	30 21	12 5	29 97	12 5	28 90	12	27 73	12	26 94	12	25 74	11 5
December,	38 50	16½	38 31	16½	28 62	12	28 36	11 5	28 24	11½	27 74	11 5	26 94	11½	25 41	11 5	23 91	9½	23 22	10
Totals,	\$517 15	212 5	\$463 45	209½	\$334 62	139½	\$323 83	133½	\$318 41	132½	\$304 51	127½	\$239 73	124½	\$276 62	122½	\$237 62	105½	\$208 57	97 5

No. 100.—NUMBER OF DAYS IN OPERATION DURING THE YEAR, 203 6-10.
Highest Individual Earnings.

	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
1888.																				
January,	\$90 33	20	\$82 26	20	\$66 58	21	\$43 85	21	\$120 47	23	\$40 82	20	\$62 40	27	\$100 40	20	\$70 69	24	\$70 70	24
February,	77 94	20	77 95	20	53 88	20	37 86	20	7 37	2	7 37	2	49 90	18	95 32	19	32 38	11	32 38	11
March,	63 19	18	63 18	18	36 24	12	53 75	12	63 63	15	63 63	15	47 29	15	16 53	11	53 54	15	53 54	15
April,	49 38	22	50 13	22	28 94	17	43 00	17	72 86	22	72 86	22	96 27	24	83 00	20	44 00	14	96 27	24
May,	92 32	22	76 39	22	51 77	17	40 83	17	97 60	22	97 86	22	67 00	20	48 48	15	47 00	20	67 00	20
June,	84 49	24	48 49	20	51 01	17	56 90	17	59 51	24	57 86	24	58 23	19	58 33	16	59 90	17	58 23	19
July,	112 18	27	90 60	27	61 62	21	63 85	21	68 34	25	68 34	25	71 32	25	83 46	22	88 08	23	71 31	25
August,	64 20	20	66 46	24	93 55	24	84 55	24	120 03	25	120 04	25	94 20	27	63 60	24	38 91	14	36 07	14
September,	108 49	26	108 48	26	98 00	24	68 56	24	114 56	26	114 57	26	80 97	25	73 27	25	80 45	25	71 99	25
October,	125 02	28	125 02	28	97 51	27	73 31	27	88 13	27	88 13	27	94 31	27	58 26	27	78 34	21	100 94	21
November,	102 47	26	102 47	26	81 43	22	71 88	22	114 45	26	109 50	26	94 10	26	103 41	22	69 27	23	69 28	23
December,	106 82	24	108 74	24	98 82	23	80 74	21	26 93	10	87 88	24	83 03	20	38 85	20	56 02	17	56 03	17
Total,	\$1,066 83	277	\$1,000 17	277	\$819 40	245	\$724 08	243	\$953 88	249	\$928 86	260	\$902 02	273	\$817 51	241	\$718 58	227	\$783 65	238

Lowest Individual Earnings.

January,	\$50 40	20	\$30 52	21	\$56 63	21	\$19 31	21	\$105 53	21	\$9 29	9	\$5 40	12	\$43 38	21	\$32 66	21
February,	28 74	19	39 30	20	43 54	20	26 91	20	36 48	20	13 35	16	70 50	20	51 52	20	42 11	20
March,	17 37	11	25 47	12	18 16	12	14 90	12	18 20	12	15 51	12	20 40	12	20 22	12	19 61	12
April,	26 00	20	34 00	18	24 46	18	24 62	18	27 00	18	19 84	18	14 51	18	46 27	18	31 81	18
May,	34 39	15	18 37	17	17 50	17	43 00	17	8 00	17	28 02	17	27 36	17	38 06	17	46 26	17
June,	34 78	16	35 59	17	39 33	17	61 73	17	10 50	17	26 97	17	9 55	17	42 41	17	48 74	17
July,	38 40	22	63 38	21	49 19	21	47 62	21	110 02	21	36 46	21	36 46	21	32 10	21	31 83	21
August,	41 20	24	48 11	24	61 27	24	31 55	24	36 28	24	50 25	24	50 25	24	29 00	24	48 53	24
September,	20 64	25	47 94	24	47 55	24	35 52	24	52 42	24	42 14	24	42 14	24	35 40	24	59 85	24
October,	38 73	27	63 50	27	43 82	27	36 03	27	36 03	27	31 64	27	31 64	27	50 59	27	55 19	27
November,	46 18	22	33 21	22	19 82	22	41 40	22	17 82	22	21 23	22	21 23	22	29 40	22	29 59	22
December,	20 00	16	35 12	21	46 74	21	28 87	21	24 10	21	26 09	21	26 09	21	13 74	10	38 38	21
Total,	\$387 03	237	\$477 51	244	\$468 01	244	\$421 46	244	\$482 38	244	\$321 79	228	\$381 89	220	\$432 09	233	\$484 56	244

No. 101.—NUMBER OF DAYS IN OPERATION DURING THE YEAR, 250.
Highest Individual Earnings.

	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
1888.																				
January,	\$41 37	16	\$38 82	15	\$46 45	17.5	\$47 15	16	\$54 68	16	\$41 93	15½	\$46 01	16½	\$55 24	18	\$33 77	13	\$36 03	13½
February,	43 64	14	53 50	18½	57 17	19.5	55 03	20	61 44	20½	59 90	22	54 37	21	63 01	21	46 32	17	45 60	17
March,	53 79	18	38 03	14	50 77	19	49 78	18½	40 11	15½	31 85	13	49 51	16½	41 41	16	38 15	16	70 04	23.5
April,	26 26	10.5	32 16	10.5	31 84	11	38 03	13½	38 35	14	41 67	12½	27 67	10	47 05	16½	39 50	12	36 50	12½
May,	23 10	10	31 08	11	29 51	10.5	33 49	12.5	32 15	9.5	26 28	8½	32 10	11½	28 27	11	37 70	12	39 38	12½
June,	31 20	9½	32 55	11½	41 76	14	35 10	13	42 31	14.5	39 93	14	41 33	13.5	37 13	12½	39 46	14	43 72	14
July,	51 72	17.5	39 10	13½	37 92	13	31 73	11½	23 82	8½	38 70	14	23 38	10½	26 18	10½	63 12	21½	54 91	17½
August,	47 38	16.5	42 78	15	49 18	18.5	41 55	14.5	39 57	14	58 60	21.5	60 81	23	39 87	15	38 45	16	27 83	10
September,	53 71	18	49 33	17.5	39 43	14	53 73	20	57 85	19½	60 72	22	49 17	20	42 72	15	49 13	18	40 63	14
October,	58 38	20.5	28 67	10	47 15	16.5	49 00	16.5	52 23	16½	39 71	15	46 19	16.5	30 90	11.5	31 82	12.5	38 12	12½
November,	37 81	14	46 80	16.5	49 50	18	41 94	14	30 75	10½	37 58	14.5	31 80	11.5	54 10	18.5	33 42	16	61 08	21.5
December,	48 62	17.5	47 19	16½	33 67	13.5	47 37	16	39 72	14½	39 84	14½	33 73	13	47 16	16	31 19	12	43 17	15
Total,	\$221 98	181½	\$480 09	169	\$519 36	185	\$526 93	185½	\$512 38	178½	\$516 71	186	\$505 07	182½	\$513 04	181½	\$487 94	179½	\$537 01	183½

Lowest Individual Earnings

January,	\$25 88	11.5	\$39 35	13	\$35 03	15	\$29 94	13½	\$28 89	13½	\$25 74	11.5	\$30 46	13	\$33 07	14½	\$28 14	12.5	\$33 49	14½
February,	50 34	21½	51 03	20½	42 49	19	40 98	17.5	50 16	21	51 95	22.5	49 46	21	43 72	19	54 97	23	54 49	24
March,	34 19	14	37 52	15	25 26	11	24 28	10	27 00	12½	30 36	13.5	33 45	14½	31 82	42	28 13	13	29 40	12
April,	21 06	10½	28 37	12.5	20 69	10	27 73	13	22 40	10	20 86	10	32 91	13½	30 40	12½	21 02	9½	24 44	11
May,	13 87	7	21 13	7.5	17 97	8.5	20 63	9½	25 28	11½	20 62	10	22 41	10½	21 63	10.5	20 57	9.5	20 27	9½
June,	24 37	11.5	36 50	16	29 34	14	24 62	12	26 71	12½	32 60	13.5	37 10	18	23 31	10½	30 03	14½	24 51	10½
July,	26 18	12	25 13	11½	23 52	12.5	28 95	13½	30 62	14½	29 80	13	25 30	12	25 42	11	35 41	16	28 14	13
August,	38 68	17.5	36 67	16½	32 10	14.5	37 50	17	33 80	15.5	38 40	16½	28 70	13	39 27	18	28 16	12½	37 61	16½
September,	27 75	12.5	28 62	13	47 60	21.5	32 73	13.5	29 16	13½	23 92	10½	28 42	12½	21 74	9½	39 83	18	31 10	14½
October,	21 94	10½	38 41	18	32 95	14	27 83	13	39 14	18½	27 62	13	34 80	14½	38 62	16½	37 51	17½	25 80	11½
November,	35 70	14.5	24 82	11½	29 38	13	38 63	17	29 19	14	21 94	10½	43 10	20½	27 80	12	30 52	13.5	29 17	13½
December,	28 62	13	27 88	12.5	31 44	13½	21 73	11½	28 60	13	39 72	17½	37 33	17.5	28 32	12½	22 41	10	30 84	13
Total,	\$348 58	155½	\$336 51	169.5	\$372 68	166½	\$355 58	159.5	\$370 95	169½	\$363 73	162	\$403 47	180.5	\$365 12	160.5	\$376 75	168.5	\$369 25	162½

No. 102.—NUMBER OF DAYS IN OPERATION DURING THE YEAR, 2541-4.
Highest Individual Earnings.

1883.	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
January,	\$111 91	23	\$98 21	23	\$95 27	23	\$91 38	23	\$89 53	23	\$85 80	23	\$80 36	23	\$78 37	23	\$73 16	23	\$72 86	23
February,	97 49	23.5	84 54	23.5	92 26	23.5	88 01	23.5	81 00	23.5	77 82	23.5	75 00	23.5	73 60	23.5	71 93	23.5	70 25	23.5
March,	88 91	23	80 00	23	79 41	23	75 55	23	72 63	23	72 15	23	71 52	23	71 22	23	69 34	23	63 29	23
April,	87 29	11 $\frac{1}{4}$	64 71	11 $\frac{1}{4}$	62 99	11 $\frac{1}{4}$	55 06	11 $\frac{1}{4}$	54 92	11 $\frac{1}{4}$	54 87	11 $\frac{1}{4}$	48 28	11 $\frac{1}{4}$	46 56	11 $\frac{1}{4}$	45 71	11 $\frac{1}{4}$	43 45	11 $\frac{1}{4}$
May,	75 13	11 $\frac{3}{4}$	62 69	11 $\frac{3}{4}$	63 17	11 $\frac{3}{4}$	62 09	11 $\frac{3}{4}$	59 99	11 $\frac{3}{4}$	55 22	11 $\frac{3}{4}$	55 19	11 $\frac{3}{4}$	52 10	11 $\frac{3}{4}$	49 98	11 $\frac{3}{4}$	48 56	11 $\frac{3}{4}$
June,	70 23	17.5	65 40	17.5	58 60	17.5	56 85	17.5	56 08	17.5	55 19	17.5	53 73	17.5	53 13	17.5	50 31	17.5	47 17	17.5
July,	81 37	19.5	79 86	19.5	71 19	19.5	67 34	19.5	67 25	19.5	63 94	19.5	65 74	19.5	63 61	19.5	63 48	19.5	61 79	19.5
August,	98 97	23	93 18	23	79 68	23	75 45	23	68 51	23	69 25	23	65 93	23	65 16	23	61 78	23	55 43	23
September,	88 89	2 $\frac{3}{4}$	84 73	2 $\frac{3}{4}$	81 49	2 $\frac{3}{4}$	70 23	2 $\frac{3}{4}$	70 21	2 $\frac{3}{4}$	89 25	2 $\frac{3}{4}$	68 68	2 $\frac{3}{4}$	66 03	2 $\frac{3}{4}$	63 60	2 $\frac{3}{4}$	60 92	2 $\frac{3}{4}$
October,	97 02	2 $\frac{3}{4}$	96 77	2 $\frac{3}{4}$	94 43	2 $\frac{3}{4}$	85 76	2 $\frac{3}{4}$	85 46	2 $\frac{3}{4}$	85 03	2 $\frac{3}{4}$	81 77	2 $\frac{3}{4}$	77 31	2 $\frac{3}{4}$	75 36	2 $\frac{3}{4}$	69 21	2 $\frac{3}{4}$
November,	84 21	23	80 29	23	77 93	23	77 46	23	76 51	23	75 04	23	72 79	23	71 04	23	67 75	23	67 72	23
December,	92 21	2 $\frac{1}{4}$	74 09	2 $\frac{1}{4}$	72 83	2 $\frac{1}{4}$	69 19	2 $\frac{1}{4}$	66 97	2 $\frac{1}{4}$	64 18	2 $\frac{1}{4}$	62 17	2 $\frac{1}{4}$	60 54	2 $\frac{1}{4}$	59 32	2 $\frac{1}{4}$	56 60	2 $\frac{1}{4}$
Total,	\$1,068 63	254 $\frac{1}{4}$	\$974 47	25 $\frac{1}{4}$	\$928 33	25 $\frac{1}{4}$	\$874 37	25 $\frac{1}{4}$	\$849 06	254 $\frac{1}{4}$	\$827 98	254 $\frac{1}{4}$	\$801 16	25 $\frac{1}{4}$	\$778 67	254 $\frac{1}{4}$	\$751 69	254 $\frac{1}{4}$	\$717 25	254 $\frac{1}{4}$

Lowest Individual Earnings.

January,	\$10 69	23	\$36 04	23	\$31 93	23	\$34 03	23	\$30 21	23	\$25 91	23	\$21 97	23	\$21 93	23	\$20 91	23	\$18 41	23
February,	52 49	23.5	49 97	23.5	48 28	23.5	47 87	23.5	44 88	23.5	42 50	23.5	41 92	23.5	41 10	23.5	39 47	23.5	32 69	23.5
March,	46 73	23	45 74	23	45 69	23	42 80	23	36 26	23	36 11	23	35 97	23	35 80	23	28 59	23	24 70	23
April,	31 06	11 $\frac{1}{4}$	30 21	11 $\frac{1}{4}$	30 03	11 $\frac{1}{4}$	27 32	11 $\frac{1}{4}$	27 18	11 $\frac{1}{4}$	25 71	11 $\frac{1}{4}$	25 41	11 $\frac{1}{4}$	24 35	11 $\frac{1}{4}$	24 13	11 $\frac{1}{4}$	18 22	11 $\frac{1}{4}$
May,	35 02	11 $\frac{3}{4}$	33 26	11 $\frac{3}{4}$	31 10	11 $\frac{3}{4}$	30 00	11 $\frac{3}{4}$	29 45	11 $\frac{3}{4}$	29 29	11 $\frac{3}{4}$	26 53	11 $\frac{3}{4}$	22 29	11 $\frac{3}{4}$	20 80	11 $\frac{3}{4}$	20 21	11 $\frac{3}{4}$
June,	32 38	17.5	31 72	17.5	31 38	17.5	29 56	17.5	28 06	17.5	27 27	17.5	27 26	17.5	26 62	17.5	22 56	17.5	19 52	17.5
July,	43 11	19.5	36 14	19.5	35 26	19.5	34 23	19.5	34 10	19.5	31 05	19.5	32 38	19.5	30 09	19.5	27 89	19.5	27 18	19.5
August,	47 35	23	44 80	23	41 78	23	43 93	23	42 26	23	42 10	23	41 88	23	40 04	23	34 42	23	32 76	23
September,	49 18	2 $\frac{3}{4}$	45 95	2 $\frac{3}{4}$	42 46	2 $\frac{3}{4}$	42 40	2 $\frac{3}{4}$	41 92	2 $\frac{3}{4}$	33 92	2 $\frac{3}{4}$	38 64	2 $\frac{3}{4}$	33 55	2 $\frac{3}{4}$	35 38	2 $\frac{3}{4}$	27 83	2 $\frac{3}{4}$
October,	48 91	2 $\frac{3}{4}$	47 67	2 $\frac{3}{4}$	46 99	2 $\frac{3}{4}$	42 53	2 $\frac{3}{4}$	41 51	2 $\frac{3}{4}$	36 85	2 $\frac{3}{4}$	36 52	2 $\frac{3}{4}$	33 26	2 $\frac{3}{4}$	31 85	2 $\frac{3}{4}$	31 58	2 $\frac{3}{4}$
November,	43 86	23	42 92	23	42 77	23	42 70	23	39 87	23	37 74	23	37 28	23	36 24	23	32 01	23	31 45	23
December,	38 16	2 $\frac{1}{4}$	38 18	2 $\frac{1}{4}$	36 11	2 $\frac{1}{4}$	35 01	2 $\frac{1}{4}$	34 32	2 $\frac{1}{4}$	33 75	2 $\frac{1}{4}$	33 01	2 $\frac{1}{4}$	32 85	2 $\frac{1}{4}$	30 96	2 $\frac{1}{4}$	26 87	2 $\frac{1}{4}$
Total,	\$508 44	25 $\frac{1}{4}$	\$482 60	25 $\frac{1}{4}$	\$469 78	254 $\frac{1}{4}$	\$452 41	254 $\frac{1}{4}$	\$430 12	254 $\frac{1}{4}$	\$410 20	254 $\frac{1}{4}$	\$398 77	254 $\frac{1}{4}$	\$379 12	25 $\frac{1}{4}$	\$340 00	25 $\frac{1}{4}$	\$302 45	25 $\frac{1}{4}$

No. 103—NUMBER OF DAYS IN OPERATION DURING THE YEAR, 227½.

Highest Individual Earnings.

	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
1883.																				
January,	\$72 96	19	\$77 67	19½	\$71 09	19½	\$77 91	19½	\$50 77	19	\$72 57	19	\$85 20	19½	\$55 00	19½	\$53 40	19½	\$40 13	19
February,	77 83	21	74 38	20½	72 10	20½	74 09	20	74 07	22	67 92	22	77 47	22	50 61	22	50 62	21	52 89	21
March,	116 53	20	92 97	20	56 98	18½	70 09	20	55 34	17½	43 45	20	45 43	19½	47 80	18½	48 66	20	52 00	20
April,	138 15	16½	99 70	15½	66 59	16½	69 51	16½	45 71	16	41 25	16	33 13	15½	50 60	16½	42 80	16½	42 35	16
May,	102 87	14½	82 52	14½	58 17	14½	57 05	14½	43 71	13½	38 31	14½	27 25	14	48 47	14	49 88	14½	43 00	14½
June,	107 48	14½	77 83	14½	67 01	14½	60 10	14½	44 05	14½	40 27	14½	28 81	14	43 09	14½	46 90	14½	40 53	14
July,	128 88	19½	99 75	19½	82 07	19	72 51	19½	63 72	19	73 81	19	46 04	19½	71 23	19½	69 31	19	60 68	19
August,	145 55	22½	104 42	22½	95 44	22½	78 67	22	95 18	21½	86 85	22½	84 87	22	72 71	22½	73 28	22½	70 65	22½
September,	127 24	20	82 03	19	79 06	20	78 81	20	89 18	22	69 95	20	57 45	20	66 45	20	55 49	20	62 77	20½
October,	143 63	24	103 70	23	93 31	23	83 75	23	107 54	24	91 07	24	90 79	23½	70 64	23½	55 65	23½	68 72	22
November,	106 79	21½	89 51	21½	84 50	22	94 55	22	108 81	21½	72 65	21½	78 62	23½	75 14	21	63 89	21½	48 33	22
December,	59 51	12½	72 14	12½	55 60	1½	41 62	12½	60 01	14½	23 77	12	53 29	12	33 18	12	37 79	12	26 92	12
Total,	\$1,327 52	226½	\$1,056 59	222½	\$881 95	222½	\$862 43	224½	\$838 09	225	\$724 27	225½	\$708 35	224	\$684 91	223½	\$630 41	226½	\$620 91	223

Lowest Individual Earnings.

	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
January,	\$46 70	19½	\$44 32	19	\$43 14	19½	\$41 29	19½	\$41 97	19½	\$27 76	19½	\$42 95	19½	\$55 61	19½	\$35 14	19½	\$41 16	19½
February,	45 12	20½	48 47	22	43 06	20½	54 56	20	46 16	22	49 90	22	42 50	22	37 41	19	50 82	22	52 12	22
March,	46 04	20	48 45	20	52 17	20	43 96	20	54 34	20	43 95	20	31 90	20	38 37	19	40 00	20	24 83	16
April,	35 80	16½	38 20	16½	36 31	16½	30 79	16½	36 32	16½	30 18	16½	32 32	15	35 29	16½	29 88	16½	32 98	16½
May,	32 23	14	32 37	14½	32 42	14½	44 77	14½	33 63	13½	30 10	14½	36 97	14½	20 00	14½	29 88	14½	21 09	14
June,	31 68	14	35 28	14½	32 42	14½	36 95	14	29 39	14½	32 17	14½	29 40	14	24 45	14½	31 06	14½	37 00	14½
July,	47 67	19½	47 68	19	54 48	19½	64 09	19½	51 15	19½	36 93	19½	48 73	19½	52 14	19½	42 58	19	23 51	17
August,	69 08	22½	60 96	22½	65 35	22½	67 66	22½	55 60	22½	70 01	22½	70 03	22½	57 10	22½	59 10	22½	52 61	22½
September,	48 70	20	51 25	20	49 93	20	65 84	20	49 87	20	56 23	20	48 21	20	49 52	20	42 44	20	39 17	20
October,	64 42	22	63 59	23	63 61	23	34 56	19	63 39	24½	71 46	23½	57 08	24	59 06	24½	52 79	23½	69 23	24½
November,	73 44	22	58 09	22	52 04	21½	44 06	22	50 81	21	61 89	22	65 62	22	63 50	22	53 11	22	53 94	22
December,	29 97	12½	40 63	12	34 48	12½	29 18	12½	30 10	12½	26	12	29 40	12½	31 14	12½	28 27	12½	31 10	12½
Total,	\$570 85	222½	\$569 09	224½	\$564 41	224½	\$557 11	222	\$543 73	225½	\$540 84	226	\$538 11	225½	\$523 59	223½	\$495 07	223½	\$477 74	220½

No. 104.—NUMBER OF DAYS IN OPERATION DURING THE YEAR, 222 3-4.
Highest Individual Earnings.

	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
1888																				
January,	\$10 49	25	\$76 99	23	\$58 32	24	\$38 75	24	\$33 36	22	\$56 88	24	\$72 52	21.5	\$38 97	24	\$38 78	25	\$30 41	21
February,	73 63	24	58 79	19	56 01	20	59 22	20	56 03	18.5	58 95	17.5	51 60	17.5	55 81	20	67 01	19	59 70	20.5
March,	82 70	21	47 11	18	94 76	20.5	55 32	19	54 77	19	64 41	21	49 88	20	51 03	20	61 93	19	52 26	19
April,	97 16	23.5	70 32	24	120 87	27	74 26	23	71 25	23	87 67	24	71 06	24	87 34	25	74 87	22	64 61	19
May,	83 22	25.5	56 32	23	59 95	20.5	50 56	21.5	52 49	21	81 56	24	77 97	25	70 25	24	76 80	25	54 79	21
June,	88 97	2.4	72 17	24	56 87	21	76 33	22	77 79	22.5	78 71	24	76 44	23	67 73	25	50 75	21	21 43	10.5
July,	90 88	22	92 26	22	78 47	25	50 00	17.5	79 87	26	65 90	22	55 38	18	51 81	21	40 03	21	20 05	10
August,	88 50	21.5	80 11	20.5	45 44	13	84 62	18.5	72 64	22	66 99	23	63 32	18	60 35	21	41 72	21	62 17	22
September,	90 36	21	60 68	23	82 86	24	69 97	21	84 17	23	55 99	19	74 44	22	67 99	21	53 20	24	65 02	23
October,	111 55	26	97 52	27	76 55	25	72 52	24	73 44	25	72 54	24	63 30	21.5	82 82	25	85 95	27	78 76	25
November,	90 13	23	74 91	23	58 43	23	54 59	18	61 08	25	67 65	23	55 73	22	66 08	24	79 39	26	73 98	24
December,	77 60	25	77 76	21	44 40	19	45 36	18.5	29 38	10	49 15	20	58 57	21.5	60 85	20	61 71	23	46 46	18
Total,	\$1,035 19	283.4	\$361 94	267.5	\$332 93	26.4	\$782 50	211.4	\$782 27	25.4	\$805 31	261.4	\$770 21	257	\$790 63	270	\$777 17	273	\$759 66	233

Lowest Individual Earnings.

January,	\$1 64	21	\$77 80	26	\$54 58	24	\$17 93	22	\$41 64	19	\$51 71	25	\$58 81	25	\$49 29	23	\$19 45	21	\$12 33	22
February,	34 84	16.5	49 65	21	65 79	24	34 46	15	43 24	20	50 31	22	39 54	23	43 99	20	35 60	19	30 86	20
March,	40 50	14	49 03	21	39 87	18	4 97	2	35 61	17	29 39	20	18 75	8	46 44	22	37 49	19	30 93	19
April,	39 98	13	47 90	21	71 30	25	58 65	24	56 58	25	51 30	24	54 30	22.5	48 48	24	46 56	24	54 51	25
May,	23 31	10	53 84	23	51 03	20.5	36 63	14	72 00	25	56 02	27	56 03	20	49 29	24	43 57	23	62 81	23
June,	44 15	24	51 63	21	48 40	25	52 69	22	53 38	23	65 32	25	88 01	24	45 27	23	49 49	26	29 02	16
July,	64 78	22	52 32	17	45 97	24	60 89	24	47 93	23	60 77	23	55 85	23	45 26	23.5	47 08	19	26 92	15
August,	58 80	23	49 21	21	51 34	26	47 10	21	42 19	21	41 09	20	53 42	26	48 56	24.5	41 43	22	35 70	20
September,	67 47	23	49 23	20	64 14	26	39 07	17	29 13	16	44 48	19	41 11	23	41 66	22	47 61	23	43 06	21
October,	62 38	22	74 36	25	68 13	25	44 29	20	55 31	25.5	61 18	25	58 69	26	65 52	25	50 13	22	52 55	27
November,	27 74	14.5	38 82	15	68 39	25	39 67	20	65 47	25	61 75	25	51 02	24	48 49	25	33 25	19	46 77	24
December,	33 31	16	42 85	18	54 83	20	44 05	19	48 73	22	47 36	21	46 23	19	45 56	22	32 79	16	35 47	18
Total,	\$48 93	219	\$616 69	219	\$383 97	282.5	510 45	220	\$731 24	261.5	\$723 68	277	\$774 76	263.5	\$760 72	278	\$714 45	253	\$790 49	250

No. 105.—NUMBER OF DAYS IN OPERATION DURING THE YEAR, 301.
Highest Individual Earnings.

	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
1888.																				
January.	\$46 77	19	\$71 13	22	\$30 43	21	\$27 05	22	\$17 58	22	\$57 96	22	\$31 69	25	\$34 68	19	\$23 45	25	\$40 40	22
February.	36 71	18	44 12	21	43 86	21	42 84	21	37 03	23	58 34	21	32 70	24	18 11	24	21 73	24	30 91	21
March.	41 91	19	37 07	21	21 58	22	28 52	23	35 91	23	60 55	26	58 04	26	105 08	26	28 55	26	47 85	26
April.	57 84	21	59 61	22	51 64	19	34 11	19	41 89	21	77 68	22	43 90	23	30 32	24	31 87	14	41 57	21
May.	58 07	25	50 34	24	74 27	25	88 52	20	..	..	52 51	22	38 10	24	36 45	25	44 43	25	43 03	25
June.	36 53	24	47 96	25	99 20	25	61 69	24	53 44	23	65 06	22	38 11	26	40 69	26	45 61	26	51 19	25
July.	19 46	23	58 87	23	72 33	24	51 95	24	73 57	22	19 45	23	41 42	25	37 32	23	47 32	25	39 25	18
August.	47 85	25	74 14	25	48 78	20	37 43	21	58 28	20	..	..	41 85	27	35 27	27	44 93	27	36 18	20
September.	82 47	24	14 35	20	33 12	25	46 87	17	41 50	25	..	..	33 35	25	47 36	25	35 52	25	26 91	19
October.	57 93	22	59 08	14	42 47	21	48 10	18	43 01	26	..	..	50 32	27	48 31	27	49 08	27	29 19	25
November.	57 27	24	61 90	24	27 39	17	43 91	20	51 47	24	61 26	22	68 29	26	44 93	26	67 98	26	63 44	24
December.	78 20	21	25 00	23	42 40	22	27 99	20	32 64	23	62 43	23	33 04	25	31 14	25	57 73	25	39 72	24
Total.	\$621 06	265	\$603 57	264	\$587 52	262	\$533 98	249	\$516 35	252	\$515 24	203	\$513 81	303	\$503 02	297	\$198 20	295	\$189 67	268

Lowest Individual Earnings.

January.	\$23 31	23	\$22 35	24	\$ 8 26	25	\$0 66	7	..	..	\$24 97	24	\$35 24	25	\$27 47	24	\$18 25	24	\$35 95	25
February.	2 85	22	20 37	21	18 61	24	15 23	21	..	26	21 00	26	32 33	24	37 90	24	25 03	24	58 34	24
March.	30 32	24	35 09	26	32 96	26	16 09	19	\$19 65	26	26 76	24	37 43	26	37 60	26	39 21	26	60 53	26
April.	..	..	7 36	7	34 49	14	39 17	24	53 29	24	24 48	24	22 17	12	23 53	15	43 93	24	38 69	24
May.	..	..	16 72	23	7 17	5	58 22	24	48 68	25	34 86	25	38 33	25	77 69	23	39 12	25	58 23	25
June.	..	..	39 07	24	15 67	12	55 29	26	39 35	26	16 12	25	..	25	45 95	24	51 20	26	55 30	26
July.	15 95	13	28 70	24	43 57	25	43 93	24	31 77	25	23 06	24	19 83	25	37 14	25	38 45	25	41 16	25
August.	32 41	27	29 25	26	26 62	27	22 29	26	46 95	27	33 30	27	60 99	27	38 40	27	33 53	27	33 19	26
September.	32 14	25	19 86	23	23 01	24	25 50	25	70 79	25	32 53	25	28 63	25	18 61	25	24 25	24	34 26	24
October.	31 29	24	25 89	26	27 32	26	21 45	25	5 81	2	30 30	27	13 36	26	24 68	27	20 70	24	29 43	24
November.	30 28	26	20 85	25	22 12	21	..	..	..	..	33 32	24	36 13	26	22 90	25	42 10	26	..	..
December.	20 79	25	21 74	25	26 87	25	..	..	..	..	38 62	24	37 26	23	22 53	24	28 95	25	..	..
Total.	\$219 31	209	\$237 25	274	\$196 37	254	\$305 89	221	\$316 29	180	\$339 37	299	\$361 70	261	\$404 40	289	\$107 77	300	\$155 10	249

No. 106.—NUMBER OF DAYS IN OPERATION DURING THE YEAR, 220.
Highest Individual Earnings.

1888.	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
January,	\$78 00	19	\$76 00	19	\$78 00	19	\$75 00	19	\$75 00	19	\$74 00	19	\$74 00	19	\$72 00	19	\$72 00	19	\$70 00	19
February,	74 00	17	74 00	17	74 00	17	72 00	17	72 00	17	70 00	17	70 00	17	66 00	17	66 00	17	65 00	17
March,	81 00	21	83 00	21	82 00	21	80 00	21	83 00	21	76 00	21	75 00	21	69 00	21	69 00	21	56 00	21
April,	61 00	14	60 00	14	59 00	14	58 00	14	57 00	14	56 00	14	56 00	14	54 00	14	54 00	14	53 00	14
May,	63 00	15	62 00	15	62 00	15	61 00	15	60 00	15	59 00	15	58 00	15	55 00	15	52 00	15	48 00	15
June,	70 00	18	69 00	18	68 00	18	69 00	18	70 00	18	66 00	18	61 00	18	67 00	18	65 00	18	62 00	18
July,	69 00	19	68 00	19	67 00	19	66 00	19	63 00	19	65 00	19	64 00	19	61 00	19	61 00	19	60 00	19
August,	71 00	20	71 00	20	70 00	20	69 00	20	68 00	20	68 00	20	67 00	20	67 00	20	65 00	20	63 00	20
September,	72 00	20	72 00	20	70 00	20	70 00	20	69 00	20	68 00	20	68 00	20	64 00	20	64 00	20	63 00	20
October,	86 00	21	84 00	21	82 00	21	82 00	21	89 00	21	80 00	21	79 00	21	78 00	21	76 00	21	74 00	21
November,	89 00	19	80 00	19	79 00	19	78 00	19	76 00	19	76 00	19	74 00	19	72 00	19	70 00	19	68 00	19
December,	79 00	18	79 00	18	77 00	18	77 00	18	75 00	18	74 00	18	73 00	18	70 00	18	69 00	18	67 00	18
Total,	\$835 00	221	\$878 00	221	\$867 00	221	\$836 00	221	\$851 00	221	\$832 00	221	\$819 00	221	\$807 00	221	\$783 00	221	\$746 00	221

Lowest Individual Earnings.

January,	\$54 00	19	\$54 00	19	\$53 00	19	\$52 00	19	\$51 00	19	\$50 00	19	\$49 00	19	\$48 00	19	\$47 00	19	\$46 00	19
February,	50 00	16	49 00	16	49 00	16	48 00	16	47 00	16	46 00	16	46 00	16	45 00	16	44 00	16	43 00	16
March,	56 00	21	56 00	21	55 00	21	54 00	21	54 00	21	53 00	21	53 00	21	52 00	21	51 00	21	50 00	21
April,	49 00	15	49 00	15	48 00	15	47 00	15	46 00	15	45 00	15	45 00	15	44 00	15	43 00	15	42 00	15
May,	51 00	15	51 00	15	50 00	15	50 00	15	49 00	15	48 00	15	48 00	15	47 00	15	46 00	15	46 00	15
June,	53 00	18	55 00	18	54 00	18	54 00	18	53 00	18	53 00	18	52 00	18	50 00	18	50 00	18	48 00	18
July,	54 00	19	54 00	19	53 00	19	52 00	19	53 00	19	52 00	19	53 00	19	51 00	19	51 00	19	52 00	19
August,	53 00	22	57 00	22	57 00	22	56 00	22	53 00	22	54 00	22	52 00	22	51 00	22	50 00	22	49 00	22
September,	55 00	20	55 00	20	54 00	20	54 00	20	53 00	20	52 00	20	51 00	20	51 00	20	50 00	20	48 00	20
October,	56 00	21	56 00	21	55 00	21	55 00	21	54 00	21	54 00	21	52 00	21	52 00	21	50 00	21	48 00	21
November,	54 00	19	54 00	19	53 00	19	52 00	19	51 00	19	50 00	19	49 00	19	49 00	19	48 00	19	45 00	19
December,	52 00	18	52 00	18	51 00	18	51 00	18	50 00	18	49 00	18	48 00	18	48 00	18	47 00	18	47 00	18
Total,	\$614 00	223	\$642 00	223	\$632 00	223	\$615 00	223	\$627 00	223	\$606 00	223	\$598 00	223	\$584 00	223	\$577 00	223	\$565 00	223

No. 107.—NUMBER OF DAYS IN OPERATION DURING THE YEAR, 268.
Highest Individual Earnings.

1888.	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
January,	\$37 90	17.1	\$63 90	18	\$63 74	19.8	\$64 90	22	\$47 40	15.8	\$25 38	9	\$50 40	18	\$77 90	19.9	\$56 01	19.8	\$57 77	18.9
February,	85 50	16.9	63 12	18.4	59 44	15.9	19 62	9	47 43	17	29 52	9	64 50	15.9	73 50	24.5	35 53	14.5	31 80	15 9
March,	82 19	21	66 50	19	73 08	18	33 83	17	55 10	19	30 87	9.5	63 58	17	55 10	19	63 66	19	50 22	18
April,	100 10	18.4	85 00	20	30 06	10.4	47 86	13	49 92	10.4	52 13	11.4	58 90	22.4	95 00	20	71 97	18.6	62 13	19.6
May,	60 40	12.8	89 60	18.4	68 40	18.4	87 40	23	102 30	19.6	33 58	11.5	61 26	18.4	88 88	18.4	64 94	18.4	74 52	17.6
June,	105 07	19	93 82	18 8	57 88	18.8	70 24	20.6	75 06	18	47 59	15.5	42 82	18.8	92 88	18.8	47 73	19.8	61 22	15.5
July,	117 60	24	84 75	25	110 50	25	80 64	21	93 28	22	62 28	18	95 00	25	72 80	25	74 00	25	79 25	25
August,	88 75	23	99 75	25	77 48	26	90 55	23	78 57	27	78 57	27	83 28	24	81 81	27	74 52	27	60 58	26
September,	131 00	20	85 68	21	102 96	24	98 12	20.4	65 00	25	64 01	18.5	92 75	25	67 92	24	61 72	22.2	60 03	23
October,	127 92	26	102 72	24	80 30	25.5	124 02	26	90 18	27	49 01	13	78 84	27	67 92	27	70 22	26.2	57 50	25
November,	74 12	23.1	89 12	23.9	42 68	11.6	95 50	21.8	70 89	23.4	41 94	12.3	74 40	24.3	69 36	24.6	62 95	21.4	54 28	23.5
December,	110 88	21.6	93 09	21.6	73 44	21.6	57 12	21	62 04	22	40 50	12.5	87 36	21.6	56 91	21	70 62	21.8	59 27	19.8
Total,	\$1,171 43	244.9	\$1,017 05	253.1	\$339 96	235	\$879 80	237.8	\$337 35	241.2	\$555 38	167.2	\$853 09	257.4	\$829 68	269.2	\$753 87	256.7	\$707 97	247.8

Lowest Individual Earnings.

1888.	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
January,	\$38 69	20.7	\$61 76	19.8	\$43 15	19.8	\$66 00	25	\$17 08	22	\$39 28	19.8	\$49 06	22	\$49 27	20.8	\$39 84	18.8	\$50 16	22
February,	35 64	18	44 32	15.9	39 01	18.4	35 36	16	25 16	17	67 63	18	54 08	16	32 10	13.9	23 70	15.9	36 44	16
March,	74 70	22.5	52 02	18	44 88	24	46 44	18	44 88	17	54 96	22.9	45 54	18	46 75	17	19 14	11	35 10	18
April,	87 13	19.9	68 60	20	57 01	20	44 27	20.7	27 05	8.1	60 20	20	57 66	21.6	55 40	20	36 44	18.4	43 87	22.5
May,	90 50	25	70 58	18.4	67 93	17.6	66 75	21.6	63 66	21.6	39 42	17.6	51 55	20.7	66 60	18.4	57 86	17.6	58 74	21.6
June,	86 67	27	50 56	18.8	62 62	17.3	45 88	18.5	58 08	17.6	42 60	12	54 72	18.3	36 51	18	52 61	18.8	36 81	18.5
July,	66 00	25	52 50	25	68 36	24.5	90 00	25	75 36	24	50 99	23.5	70 50	25	37 44	24	50 29	23.5	67 44	24
August,	74 88	26	65 29	27	68 90	26	76 44	26	42 40	16	55 35	27	52 17	23.5	70 39	26.5	47 60	20	52 56	24
September,	51 74	24.6	48 16	21.5	64 60	19	84 25	25	85 00	25	38 93	17	43 64	21.5	55 02	21	43 87	15.5	67 62	24.5
October,	73 01	24.5	84 06	26.5	64 53	27	67 58	25.5	61 75	26.5	63 91	23	78 89	23.5	59 89	26.5	63 18	27	61 80	27
November,	56 10	22	68 56	24.1	51 50	22.1	51 09	24.1	56 03	22.6	69 80	24	40 75	19.6	51 13	23.9	51 59	20.9	39 77	22.6
December,	53 28	18	47 02	22.5	57 02	21.6	48 26	19	46 33	20.5	46 59	21.4	33 16	16.5	49 50	18.9	44 84	21.6	40 24	18
Total,	\$788 34	273.2	\$713 93	257.8	\$639 50	257.3	\$722 32	264.4	\$632 78	257.9	\$629 71	246.2	\$631 72	246.2	\$610 03	248.9	\$530 99	229	\$593 55	258.7

No. 108.—NUMBER OF DAYS IN OPERATION DURING THE YEAR, 241.
Highest Individual Earnings.

	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
1888.																				
January,	\$65 69	22	\$61 34	18	\$50 24	17	\$61 85	19	\$68 70	22	\$47 78	18	\$50 21	16	\$45 47	16	\$41 43	17	\$27 11	11
February,	57 87	19	57 60	12	46 71	18	47 96	15	50 87	19	64 92	13	43 28	16	32 24	12	36 65	14	78 19	16
March,	23 64	9	43 83	8	32 55	10	26 45	8	30 65	10	24 42	7	19 50	7	23 55	10	22 33	9	23 04	9
April,	43 71	13	43 90	13	34 08	14	35 42	13	38 58	14	35 71	13	44 82	14	37 24	12	28 70	12	41 83	13
May,	32 75	12	27 95	11	53 68	17	51 28	11	11 49	5	29 50	11	29 69	11	26 21	11	27 93	10	21 36	11
June,	46 51	16	40 30	16	46 05	18	40 33	14	41 89	15	37 55	16	48 07	17	39 58	16	36 85	15	38 19	15
July,	43 15	17	47 63	16	45 61	17	53 74	16	50 35	14	45 22	16	45 18	16	46 61	16	30 11	11	46 41	15
August,	69 07	24	59 86	22	70 07	23	66 98	23	66 73	23	59 16	23	55 09	22	63 06	23	55 23	22	66 79	23
September,	65 79	22	64 03	23	61 08	20	63 11	22	39 70	20	63 73	21	67 91	22	62 59	21	61 12	22	47 59	22
October,	55 91	21	55 20	21	50 40	18	60 08	23	60 24	18	67 04	22	54 76	20	61 83	21	65 42	22	51 78	20
November,	58 28	19	51 36	19	62 51	20	36 96	13	50 00	20	47 48	20	44 04	15	56 09	19	53 03	18	53 45	20
December,	46 61	17	44 33	17	49 32	17	43 85	16	51 43	16	47 46	17	38 63	14	43 06	16	69 94	10	34 08	14
Total,	\$663 98	211	\$600 38	196	\$602 10	209	\$587 99	198	\$560 66	196	\$569 97	197	\$546 18	190	\$540 53	194	\$528 82	182	\$529 82	189

Lowest Individual Earnings.

January,	\$54 38	18	\$52 07	17	\$40 79	16	\$46 33	17	\$45 86	14	\$40 84	16	\$50 63	16	\$44 45	17	\$49 22	19	\$50 32	19
February,	24 85	12	42 70	16	51 74	17	38 36	15	31 95	13	24 49	9	33 44	15	35 10	14	19 57	9	55 76	18
March,	26 07	8	21 17	8	19 21	7	18 03	8	17 90	7	16 22	7	24 75	8	16 72	8	15 56	7	14 63	6
April,	36 85	14	25 73	11	32 15	14	35 26	13	29 98	10	29 60	14	49 46	15	33 89	13	39 13	13	27 65	12
May,	33 85	10	28 72	11	27 52	11	26 50	11	23 69	10	31 54	11	29 62	11	33 46	11	23 98	11	17 00	9
June,	45 89	16	45 55	17	43 61	15	30 49	14	42 82	16	41 01	16	43 22	14	4 30	16	38 39	16	30 80	15
July,	34 73	14	28 50	11	47 25	15	45 18	16	36 37	14	40 77	15	14 05	6	43 10	15	33 64	15	23 31	12
August,	63 56	21	60 48	23	60 89	23	60 84	23	63 89	23	59 22	23	59 93	23	55 61	17	64 49	23	46 34	18
September,	60 40	22	65 89	23	53 87	21	64 40	23	63 04	22	59 95	22	51 68	20	47 15	19	51 74	21	38 82	14
October,	69 38	23	61 84	22	54 18	21	63 06	22	54 12	19	59 77	23	51 86	21	43 50	17	67 63	21	48 59	14
November,	44 48	18	53 22	17	47 34	20	51 93	18	49 40	18	59 01	20	47 04	18	48 16	15	45 09	16	40 35	14
December,	36 09	16	44 42	18	44 15	14	42 57	15	51 54	12	42 63	18	41 27	18	42 70	16	33 71	14	37 56	12
Total,	\$580 54	192	\$530 29	194	\$522 70	134	\$522 95	195	\$510 36	178	\$504 45	194	\$439 95	185	\$486 64	178	\$488 20	185	\$429 14	163

No. 109.—NUMBER OF DAYS IN OPERATION DURING THE YEAR, 203.
Highest Individual Earnings.

1888.	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
January,	\$12 00	11	\$54 00	11	\$38 00	11	\$78 00	11	\$51 00	11	\$45 00	11	\$31 00	11	\$39 00	11	\$40 00	11	\$48 00	11
February,	29 00	9	57 00	9	31 00	9	66 00	9	49 00	9	44 00	9	42 00	9	50 00	9	40 00	9	21 00	9
March,	87 00	15	57 00	15	59 00	15	44 00	15	58 00	15	64 00	15	53 00	15	45 00	15	61 00	15	55 00	15
April,	69 00	12	60 00	12	49 00	12	36 00	12	57 00	12	55 00	12	48 00	12	86 00	12	53 00	12	44 00	12
May,	85 00	13	64 00	13	56 00	13	24 00	13	19 00	13	65 00	13	55 00	13	58 00	13	43 00	13	52 00	13
June,	121 00	18	72 00	18	78 00	18	62 00	18	46 00	18	65 00	18	82 00	18	63 00	18	45 00	18	75 00	18
July,	140 00	20	115 00	20	120 00	20	51 00	20	118 00	20	110 00	20	92 00	20	74 00	20	46 00	20	64 00	20
August,	85 00	21	82 00	21	73 00	21	78 00	21	71 00	21	72 00	21	91 00	21	57 00	21	62 00	21	81 00	21
September,	100 00	20	79 75	20	79 00	20	65 00	20	80 00	20	78 00	20	70 00	20	40 00	20	85 69	20	64 00	20
October,	56 00	22	87 00	22	98 00	22	80 00	22	83 00	22	59 00	22	59 00	22	78 00	22	88 00	22	79 00	22
November,	73 00	19	109 00	19	89 00	19	72 00	19	99 00	19	65 00	19	50 00	19	92 00	19	82 00	19	67 00	19
December,	46 00	17	94 00	17	74 00	17	85 00	17	95 00	17	66 00	17	54 00	17	66 00	17	65 00	17	82 00	17
Total,	\$938 00	197	\$930 75	197	\$844 00	197	\$741 00	197	\$826 00	197	\$788 00	197	\$757 00	197	\$748 00	197	\$740 00	197	\$732 00	197

Lowest Individual Earnings.

1888.	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
January,	\$23 00	11	\$20 00	11	\$30 00	11	\$18 00	11	\$23 00	11	\$25 00	11	\$30 00	11	\$23 00	11	\$23 00	11	\$22 00	11
February,	22 00	10	27 00	10	38 00	10	25 00	10	23 00	10	33 00	10	27 00	10	30 00	10	20 00	10	26 00	10
March,	66 00	15	56 00	15	48 00	15	48 00	15	42 00	15	43 00	15	37 00	15	43 00	15	43 00	15	30 00	15
April,	46 00	12	31 00	12	63 00	12	37 00	12	33 00	12	28 00	12	33 00	12	30 00	12	48 00	12	22 00	12
May,	48 00	13	49 00	13	35 00	13	32 00	13	31 00	13	44 00	13	34 00	13	43 00	13	33 00	13	30 00	13
June,	76 00	18	78 00	18	50 00	18	46 00	18	51 00	18	53 00	18	20 00	18	54 00	18	47 00	18	20 00	18
July,	82 00	20	52 00	20	47 00	20	61 00	20	51 00	20	53 00	20	36 00	20	50 00	20	41 00	20	20 00	20
August,	108 00	21	49 00	21	49 00	21	61 00	21	68 00	21	39 00	21	75 00	21	47 00	21	33 00	21	54 00	21
September,	92 00	20	54 00	20	61 00	20	68 00	20	60 00	20	40 00	20	61 00	20	50 00	20	31 00	20	43 00	20
October,	52 00	22	63 00	22	80 00	22	34 00	22	84 00	22	76 00	22	51 00	22	43 00	22	31 00	22	43 00	22
November,	46 00	19	61 00	19	56 00	19	37 00	19	43 00	19	55 00	19	45 00	19	39 50	19	35 00	19	40 00	19
December,	36 00	17	45 00	17	28 00	17	39 00	17	42 00	17	30 00	17	49 00	17	35 00	17	40 00	17	40 00	17
Total,	\$697 00	198	\$585 00	198	\$575 00	198	\$506 00	198	\$501 00	198	\$499 00	198	\$498 00	198	\$487 00	198	\$405 00	198	\$412 00	198

No. 110.—NUMBER OF DAYS IN OPERATION DURING THE YEAR, 301.
Highest Individual Earnings.

	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
1888.																				
January,	\$117 86	25	\$89 80	23	\$91 26	20	\$52 28	18	\$25 06	23	\$14 47	21	\$19 13	22	\$30 91	22	\$17 77	16	\$5 03	18
February,	45 02	13	71 36	20	28 64	22	56 54	23	45 06	20	15 44	21	38 41	21	40 32	23	28 83	16	27 16	20
March,	47 66	18	79 02	26	63 23	25	61 83	25	71 51	24	95 35	25	26 77	24	49 55	25	46 18	25	40 61	26
April,	67 53	24	55 51	22	67 80	23	104 38	25	55 70	15	51 60	25	46 07	24	71 40	22	50 55	25	43 79	25
May,	113 51	26	66 13	25	83 28	22	84 22	24	92 03	26	46 99	20	51 71	26	58 38	25	44 29	25	53 41	26
June,	108 31	26	42 17	24	51 25	19	81 22	20	52 66	26	61 81	23	46 06	23	25 26	23	52 75	22	37 41	26
July,	110 80	25	41 62	23	37 31	25	48 69	25	50 45	23	83 18	23	51 69	24	46 61	25	28 28	24	41 06	23
August,	119 39	27	66 92	25	30 90	25	20 33	23	42 07	25	52 43	24	56 40	25	69 72	26	49 01	25	50 50	25
September,	94 8	24	52 33	24	65 03	23	17 32	18	78 61	24	46 25	21	67 75	23	26 91	21	55 50	24	45 02	23
October,	120 92	24	55 59	26	72 52	26	70 25	26	55 97	24	41 75	25	41 88	24	33 48	24	38 83	25	46 76	27
November,	102 29	26	76 97	25	102 31	26	73 65	26	73 00	25	35 60	22	43 78	25	32 03	25	48 29	26	43 21	26
December,	113 53	25	58 34	24	100 18	24	63 37	22	45 45	24	57 05	21	33 79	23	25 29	22	21 57	19	25 44	21
Total,	\$1,161 63	283	\$758 76	288	\$749 71	230	\$734 08	275	\$687 63	279	\$531 95	271	\$523 47	284	\$509 89	283	\$491 95	272	\$479 43	286

Lowest Individual Earnings.

	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
January,	\$14 38	18	\$22 42	16	\$23 42	17	\$22 79	20	\$18 55	16	\$22 12	21	\$38 12	17	\$30 02	19	\$25 20	20	\$22 41	21
February,	19 36	13	18 33	15	32 11	18	27 11	21	28 59	19	33 42	21	52 35	20	25 11	19	24 37	20	33 28	21
March,	38 69	19	23 66	24	43 95	25	31 92	24	38 51	26	35 76	24	31 58	23	31 51	25	28 90	26	29 73	24
April,	36 61	22	5 90	22	1 67	2	39 91	23	26 71	21	25 64	17	26 55	16	53 86	22	47 00	24	45 49	24
May,	21 91	23	30 73	24	39 40	20	35 12	20	16 67	17	39 00	24	35 23	18	38 30	22	44 76	19	36 33	22
June,	32 73	23	31 31	23	36 20	21	34 36	21	7 81	17	38 92	24	37 13	21	41 56	25	31 23	20	41 16	21
July,	15 62	19	27 53	25	18 70	20	22 44	18	51 00	23	35 47	23	32 11	20	36 08	23	21 82	20	37 10	21
August,	20 86	22	31 52	19	16 50	24	38 13	26	49 58	26	27 03	22	21 83	17	38 78	26	38 18	24	41 99	26
September,	32 36	23	27 99	21	32 60	22	35 66	21	30 65	23	33 50	23	25 45	18	32 33	23	31 34	23	26 87	12
October,	29 18	24	28 99	21	31 22	25	30 74	22	41 11	25	28 53	22	14 91	13	34 59	26	34 10	25	32 39	23
November,	24 58	25	27 37	22	28 95	23	29 41	21	37 74	25	31 29	25	32 78	20	28 68	23	24 95	24	27 65	24
December,	16 24	22	24 20	19	15 45	20	17 23	20	22 83	22	20 83	24	32 75	20	21 33	23	21 74	20	23 61	24
Total,	\$303 57	253	\$306 03	251	\$320 17	237	\$364 85	237	\$369 75	260	\$371 51	270	\$380 79	223	\$382 15	276	\$382 79	266	\$398 01	263

No. 111.—NUMBER OF DAYS IN OPERATION DURING THE YEAR, 308.
Highest Individual Earnings.

1888.	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
January,	\$92 96	24	\$82 96	25	\$66 81	26	\$55 35	24	\$76 41	24	\$52 51	24	\$56 26	23	\$42 27	24	\$57 46	24	\$25 41	22
February,	88 82	24	47 76	22	60 21	23	66 74	24	55 52	22	69 19	22	56 24	23	95 78	24	54 34	23	33 89	21
March,	54 66	24	63 55	25	61 66	26	74 39	24	65 03	22	57 98	24	45 50	23	75 60	26	52 15	26	46 41	24
April,	53 18	22	100 35	22	73 41	25	45 36	12	56 55	22	52 44	25	83 18	24	.	.	69 41	25	66 32	24
May,	110 73	25	61 58	22	68 00	20	53 99	26	45 17	23	56 63	22	85 40	25	.	.	77 29	23	68 84	25
June,	110 42	26	90 25	20	79 92	25	51 64	24	68 62	25	57 53	25	82 14	24	28 14	16	63 63	25	46 41	21
July,	86 26	25	78 17	16	63 17	25	44 24	24	52 76	24	74 43	25	70 66	23	123 43	25	71 23	25	76 51	21
August,	72 32	22	11 02	22	64 06	16	73 04	24	84 49	26	76 62	26	65 98	26	105 92	26	90 68	26	92 47	27
September,	57 97	23	71 93	25	72 88	25	51 88	19	82 85	22	48 62	21	52 80	25	99 11	25	44 09	22	76 89	26
October,	44 59	22	74 52	24	62 24	23	61 79	21	53 12	18	71 49	22	40 89	21	90 79	25	22 95	14	62 77	25
November,	51 69	25	47 70	24	54 92	22	113 97	26	58 37	21	66 65	26	38 05	26	75 55	26	53 00	23	30 03	21
December,	92 19	22	56 19	22	59 45	22	44 53	16	48 29	19	65 45	17	35 63	19	23 73	22	43 75	22	56 72	22
Total.	\$915 79	281	\$786 01	270	\$791 74	280	\$747 92	264	\$747 18	268	\$740 59	279	\$712 13	282	\$760 32	239	\$701 98	278	\$695 67	283

Lowest Individual Earnings.

1888.	1ST MAN.		2D MAN.		3D MAN.		4TH MAN.		5TH MAN.		6TH MAN.		7TH MAN.		8TH MAN.		9TH MAN.		10TH MAN.	
	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.	Earnings.	No. of days.
January,	\$31 73	21	\$34 75	24	\$52 68	24	\$36 26	21	\$34 01	21	\$36 71	17	\$39 90	23	\$43 32	25	\$38 02	25	\$32 29	24
February,	33 38	22	38 05	23	21 23	22	1 05	23	32 54	22	32 67	21	41 71	22	56 83	23	38 84	21	40 69	23
March,	23 52	24	20 02	23	18 05	20	31 98	22	43 42	23	34 63	22	35 17	22	7 29	17	42 42	23	33 56	13
April,	20 90	13	15 97	22	18 68	15	37 27	22	7 73	25	28 41	20	43 17	24	37 87	24	10 01	20	33 44	24
May,	43 53	24	39 98	24	46 40	26	33 45	26	67 41	25	48 66	25	44 95	23	54 96	25	57 62	24	48 51	23
June,	32 52	25	34 45	23	42 09	26	39 76	25	47 55	25	39 41	24	37 11	23	42 50	23	52 55	17	43 94	23
July,	45 65	26	27 34	26	45 50	26	36 84	24	44 43	26	35 90	26	36 80	25	47 41	24	47 48	26	44 45	26
August,	41 08	23	40 27	23	48 29	25	36 82	26	50 94	25	43 26	24	42 32	23	51 72	23	59 24	26	47 42	21
September,	43 96	24	41 79	24	33 33	25	41 52	24	37 55	23	38 86	23	41 96	24	40 76	20	40 26	22	49 88	24
October,	40 87	24	42 45	25	11 75	16	41 02	25	40 43	23	47 81	26	48 80	17	38 71	26	11 55	12	38 04	24
November,	19 81	20	22 83	21	32 31	23	19 79	21	27 36	22	25 55	20	17 43	20	29 16	22	40 59	21	44 77	26
December,	1 60	3	36 82	22	37 54	26	27 53	20	15 09	20	42 70	22	26 48	21	18 22	19	38 74	20	41 15	22
Total,	\$378 55	251	\$394 72	280	\$407 94	277	\$425 89	279	\$448 46	280	\$454 67	270	\$465 80	267	\$469 30	271	\$477 32	257	\$435 14	273

Individual and Average Earnings of Miners in an Anthracite Colliery, for the year ending August 31, 1888.

1887	SEPTEMBER.			OCTOBER.			NOVEMBER.			DECEMBER.		
Individual miners.	Number of days worked.	Earnings for the month.	Earnings per day.	Number of days worked.	Earnings for the month.	Earnings per day.	Number of days worked.	Earnings for the month.	Earnings per day.	Number of days worked.	Earnings for the month.	Earnings per day.
1	25 ¹ / ₂	\$65 02	\$2 55	25	\$77 23	\$3 09	25	\$76 35	\$3 05	25	\$70 11	\$2 80
2	25	65 56	2 62	24	74 13	3 09	24	73 32	3 05	24	67 12	2 80
3	26	68 20	2 62	26	72 11	2 77	25	82 99	3 32	24	61 08	2 54
4	24	62 93	2 62	26	71 97	2 76	25	82 99	3 32	26	66 17	2 54
5	24	62 94	2 62	25	69 35	2 77	25	79 84	3 19	24	80 10	3 34
6	26	68 01	2 61	26	72 11	2 77	25	79 84	3 19	24	80 10	3 34
7	25	72 17	2 88	25	74 70	2 98	25	66 54	2 66	26	73 31	2 82
8	25 ¹ / ₂	73 85	2 90	25 ¹ / ₂	76 50	3 00	24	63 29	2 63	26	73 30	2 82
9	25 ¹ / ₂	66 64	2 61	25	80 68	3 22	24	63 27	2 63	26	79 12	3 04
10	25	64 98	2 58	24 ¹ / ₂	78 03	3 18	24	77 00	3 21	25	76 08	3 04
11	24 ¹ / ₂	67 64	2 76	24	69 83	2 91	25	64 85	2 59	25	66 15	2 64
12	24 ¹ / ₂	67 64	2 76	23	76 52	3 32	24	77 34	3 22	26	60 40	2 32
13	24 ¹ / ₂	66 94	2 73	25 ¹ / ₂	84 83	3 32	25	67 45	2 69	25	86 13	3 45
14	25 ¹ / ₂	70 40	2 76	25	83 61	3 34	23	66 42	2 88	24	62 96	2 62
15	22 ¹ / ₂	61 77	2 75	26	86 97	3 34	25	72 18	2 88	26	69 13	2 66
16	25 ¹ / ₂	69 65	2 73	26	91 20	3 50	25	60 90	2 43	25	66 48	2 66
17	24 ¹ / ₂	67 64	2 76	20	70 17	3 50	24	69 68	2 90	25	92 22	3 69
18	23	68 52	2 98	25	74 71	2 98	25	72 76	2 91	24	68 65	2 86
19	24	61 21	2 55	26	77 67	2 98	24	75 94	3 16	25	71 52	2 86
20	24	61 21	2 55	25	72 06	2 88	22	69 54	3 15	26	80 39	3 09
21	24 ¹ / ₂	63 01	2 57	23	67 71	2 94	25	62 12	2 48	26	80 39	3 09
22	24 ¹ / ₂	63 00	2 57	23	67 70	2 94	24	78 72	3 28	26	71 49	2 75
23	26	62 69	2 41	24	69 65	2 90	21	62 67	2 98	26	71 49	2 75
24	26	62 69	2 41	25	72 57	2 90	25	74 64	2 98	25	65 75	2 63
25	24	61 71	2 57	24	66 37	2 76	25	67 45	2 69	24	62 92	2 63
26	25	64 26	2 57	26	71 91	2 76	25	67 44	2 69	26	68 55	2 64
27	25	62 84	2 51	26	63 12	2 42	25	69 32	2 77	25	65 91	2 64
28	25	69 11	2 76	25	60 05	2 40	25	69 32	2 77	26	62 30	2 40
29	26	71 64	2 75	26	82 91	3 18	25	66 95	2 67	26	62 30	2 40
30	24	73 55	3 06	26	82 91	3 18	25	64 94	2 59	25	62 11	2 48
31	25	62 86	2 51	25	64 33	2 57	24	62 46	2 60	26	64 90	2 49
32	23	64 45	2 80	26	66 91	2 57	25	65 11	2 60	24	65 32	2 72
33	25	62 15	2 48	25	97 66	3 90	25	67 59	2 70	24	65 32	2 72
34	24	64 74	2 69	24	93 09	3 88	25	67 59	2 70	24	68 99	2 87
35	24	64 74	2 69	26	64 46	2 48	25	64 87	2 59	21	60 35	2 87
36	25	60 98	2 44	26	64 46	2 48	25	64 87	2 59	25	64 29	2 57
37	20	84 65	4 23	26	67 34	2 59	24	64 42	2 68	26	66 86	2 57
38	20	84 32	4 21	26	67 29	2 58	25	80 51	3 22	24	59 21	2 46
39	21 ¹ / ₂	64 39	2 99	24	84 84	3 53	25	80 51	3 22	25	61 66	2 46
40	25 ¹ / ₂	65 03	2 55	26	91 90	3 53	24 ¹ / ₂	72 04	2 94	24	74 35	3 09
41	30	87 48	2 91	27	60 56	2 24	24	70 56	2 94	26	78 18	3 01
42	26	76 65	2 95	23	69 32	3 01	22	79 61	3 62	25	75 16	3 01
43	25	73 70	2 95	26	78 30	3 01	24	61 82	2 57	21	62 13	2 96
44	21 ¹ / ₂	79 05	3 67	25	67 27	2 69	25	62 51	2 50	25	69 49	2 78
45	19 ¹ / ₂	71 74	3 68	24	64 58	2 69	25	62 49	2 50	24	66 71	2 78
46	24	89 63	3 73	18	71 14	3 95	25	62 73	2 50	26	63 83	2 45
47	24	89 62	3 73	20	79 04	3 95	24	65 14	2 60	26	63 82	2 45
48	24	81 55	3 33	24 ¹ / ₂	81 27	3 31	25	67 81	2 71	25	62 62	2 50
49	24 ¹ / ₂	74 29	3 03	26	66 94	2 57	23	61 87	2 69	26	65 86	2 53
50	24 ¹ / ₂	74 29	3 03	24 ¹ / ₂	70 39	2 87	24	63 81	2 66	21	63 32	3 01
51	25	61 95	2 47	24 ¹ / ₂	70 39	2 87	22	69 29	3 15	21	63 32	3 01
52	24 ¹ / ₂	81 54	3 33	24 ¹ / ₂	76 00	3 10	19	81 19	4 27	25	63 73	2 55
53	19 ¹ / ₂	64 91	3 33	24 ¹ / ₂	76 00	3 10	22	65 75	2 99	25	63 72	2 55
54	23	69 36	2 91	27	82 30	3 04	24	62 81	2 61	26	70 33	2 71
55	23 ¹ / ₂	69 36	2 91	25	71 88	2 87	25	65 41	2 61	26	71 74	2 76
56	24	74 35	3 09	25 ¹ / ₂	93 40	3 66	23	66 67	2 90	25	68 98	2 76

Individual and Average Earnings, &c.—Continued.

1887	SEPTEMBER.			OCTOBER.			NOVEMBER.			DECEMBER.		
Individual miners.	Number of days worked.	Earnings for the month.	Earnings per day.	Number of days worked.	Earnings for the month.	Earnings per day.	Number of days worked.	Earnings for the month.	Earnings per day.	Number of days worked.	Earnings for the month.	Earnings per day.
57	23 ¹ / ₂	\$63 81	\$2 71	25 ¹ / ₂	\$93 40	\$3 66	25	\$72 53	\$2 90	25	\$71 44	\$2 86
58	25	61 75	2 47	26	67 11	2 58	23	75 18	3 26	26	74 32	2 86
59	26	64 21	2 47	23 ¹ / ₂	64 41	2 74	25	74 26	2 97	25	70 62	2 82
60	26	62 70	2 41	23 ¹ / ₂	64 41	2 74	25	74 25	2 97	25	70 62	2 82
61	26	62 70	2 41	17 ¹ / ₂	64 85	3 70	25	64 80	2 59	26	76 80	2 95
62	25	68 71	2 74	19 ¹ / ₂	72 24	3 70	25	64 80	2 59	26	76 80	2 95
63	25	68 68	2 74	20	63 16	3 15	25	60 00	2 40	24	77 93	3 24
64	25	71 31	2 85	21	66 55	3 17	23	60 58	2 63	25	81 18	3 24
65	24	68 46	2 85	25	79 31	3 17	23	60 57	2 63	25	76 54	3 06
66	26	67 54	2 59	24	110 92	4 62	21	63 69	3 03	26	85 53	3 29
67	26	67 54	2 59	24	73 40	3 06	25	75 83	3 03	26	85 52	3 29
68	25	60 44	2 41	26	79 75	3 07	24	61 74	2 57	25	96 05	3 84
69	25	60 44	2 41	27	72 94	2 70	25	64 34	2 57	24	92 65	3 86
70	...	...	...	24 ¹ / ₂	65 37	2 66	24	74 98	3 12	22	62 38	2 83
71	...	...	...	24 ¹ / ₂	65 36	2 66	24	74 98	3 12	26	70 53	2 71
72	...	...	...	24	66 93	2 78	25	61 81	2 47	24	65 13	2 71
73	...	...	...	24 ¹ / ₂	62 78	2 56	25	61 81	2 47	25	69 90	2 80
74	...	...	...	24	81 15	3 38	22	73 95	3 36	25	69 90	2 80
75	...	...	...	22	78 97	3 59	22	73 95	3 36	23	64 30	2 80
76	...	...	...	24 ¹ / ₂	64 02	2 61	...	...	...	24	62 85	2 62
77	...	...	...	25 ¹ / ₂	61 34	2 40	...	...	...	24	61 60	2 57
78	...	...	...	25	61 15	2 44	...	...	...	26	88 21	3 39
79	...	...	...	25	61 15	2 44	...	...	...	26	71 39	2 74
80	...	...	...	26	69 84	2 68	...	...	...	24	65 92	2 74
81	...	...	...	23	64 23	2 79	...	...	...	22	74 82	3 40
82	...	...	...	...	...	...	...	...	...	26	77 20	2 97
83	...	...	...	...	...	...	...	...	...	25	72 32	2 89
84	...	...	...	...	...	...	...	...	...	25	72 32	2 89
85	...	...	...	...	...	...	...	...	...	25	66 15	2 64
86	...	...	...	...	...	...	...	...	...	25	66 15	2 64
87	...	...	...	...	...	...	...	...	...	26	69 56	2 67
88	...	...	...	...	...	...	...	...	...	26	78 78	3 03
89	...	...	...	...	...	...	...	...	...	26	78 78	3 03
SEPTEMBER—							NOVEMBER—					
Avg. daily wage of 69 miners,							Avg. daily wage of 75 miners,					
Average monthly earnings, .							Average monthly earnings, .					
Avg. monthly time, 24 days.							Avg. monthly time, 24.2 days.					
Average daily wage of all, 213 miners,							Average daily wage of all, 220 miners,					
Average monthly earnings, .							Average monthly earnings, .					
Avg. monthly time, 22 days.							Avg. monthly time, 22.6 days.					
OCTOBER—							DECEMBER—					
Avg. daily wage of 81 miners,							Avg. daily wage of 89 miners,					
Average monthly earnings, .							Average monthly earnings, .					
Avg. monthly time, 24 days.							Avg. monthly time, 24.8 days.					
Average daily wage of all, 217 miners,							Average daily wage of all, 233 miners,					
Average monthly earnings, .							Average monthly earnings, .					
Avg. monthly time, 22 ¹ / ₂ days.							Avg. monthly time, 21 ¹ / ₂ days.					

Individual and Average Earnings, &c.—Continued.

1888	JANUARY.			FEBRUARY.			MARCH.			APRIL.		
Individual miners.	Number of days worked.	Earnings for the month.	Earnings per day.	Number of days worked.	Earnings for the month.	Earnings per day.	Number of days worked.	Earnings for the month.	Earnings per day.	Number of days worked.	Earnings for the month.	Earnings per day.
1	24 ⁶ ₁₀	\$65 74	\$2 67	23	\$66 75	\$2 90	24	\$61 40	\$2 56	20	\$49 91	\$2 49
2	25	66 88	2 68	25	72 54	2 90	24	61 61	2 56	20	49 91	2 49
3	25 ⁶ ₁₀	68 41	2 67	25	72 04	2 88	25	69 53	2 78	19	47 39	2 49
4	25 ⁶ ₁₀	68 41	2 67	25	81 23	3 25	26	70 56	2 71	18	46 72	2 60
5	25	76 53	3 06	24	78 01	3 25	22	61 18	2 78	18 ⁴ ₁₀	47 84	2 60
6	25	76 60	3 06	25	81 22	3 25	25	69 53	2 78	18 ⁴ ₁₀	47 84	2 60
7	25 ⁷ ₁₀	71 94	2 80	25	81 22	3 25	23 ¹ ₂	63 86	2 72	18 ⁴ ₁₀	47 63	2 59
8	25	70 18	2 80	24	76 67	3 19	24	65 10	2 71	24	47 12	1 96
9	24 ⁷ ₁₀	67 01	2 71	25	79 82	3 19	25 ¹ ₂	69 33	2 71	17	64 18	3 77
10	23	62 63	2 72	25	71 76	2 87	25	76 77	3 07	18	68 08	3 77
11	26	65 08	2 50	25	71 76	2 87	27	80 65	2 98	18	53 03	2 94
12	25	77 52	3 10	21	60 99	2 90	24	73 29	3 05	17	48 73	2 86
13	26	79 57	3 06	22	60 99	2 77	27	82 43	3 05	16	45 80	2 86
14	23	63 65	2 76	25	60 99	2 44	26	68 93	2 65	18	73 95	4 10
15	25	85 09	3 40	25	64 31	2 57	24	69 47	2 89	19	54 01	2 84
16	24	81 70	3 40	25	63 20	2 52	22	63 66	2 89	18 ¹ ₂	59 18	3 19
17	23	68 79	2 99	25	63 18	2 52	25 ³ ₄	60 17	2 33	25	59 76	2 39
18	26	60 77	2 33	24	69 12	2 88	25 ³ ₄	60 16	2 33	25	47 77	1 91
19	26	61 21	2 35	25	65 64	2 62	25 ³ ₄	60 52	2 35	25	47 76	1 91
20	25	71 16	2 84	25	65 65	2 62	25 ³ ₄	60 52	2 35	22	69 16	3 14
21	23	65 50	2 84	24	84 75	3 53	24	61 93	2 58	18	52 98	2 94
22	26	67 53	2 60	25	64 82	2 59	23 ¹ ₂	60 53	2 58	24	53 53	2 23
23	26	67 53	2 60	24	62 20	2 59	26	63 87	2 46	19	56 26	2 96
24	23	78 58	3 41	25	63 42	2 53	26	63 85	2 46	19	56 24	2 96
25	25	85 35	3 41	25	63 42	2 53	25	70 65	2 82	18	45 77	2 54
26	25	61 00	2 44	25	80 54	3 22	25	70 65	2 82	18	45 76	2 54
27	26	63 41	2 44	24	70 55	2 94	19 ¹ ₂	80 06	4 10	19	64 21	3 38
28	25	65 90	2 63	24	70 55	2 94	24 ¹ ₂	74 53	3 04	19	64 20	3 38
29	25	63 84	2 55	25	62 36	2 49	21	60 38	2 87	17	50 93	2 99
30	26	66 40	2 55	25	62 34	2 49	24	60 26	2 51	17	50 92	2 99
31	25	64 65	2 58	25	70 82	2 83	23 ¹ ₂	61 93	2 63	18	66 92	3 71
32	26	67 13	2 58	25	70 81	2 83	16	72 41	4 52	18	66 92	3 71
33	26	66 29	2 55	25	69 27	2 77	27	64 52	2 39	18	45 70	2 54
34	26	66 28	2 55	25	61 06	2 44	27	80 61	2 99	18	45 68	2 54
35	26	77 13	2 97	25	61 06	2 44	27	80 61	2 99	23	52 23	2 27
36	26	77 13	2 97	22	75 82	3 44	25	64 52	2 58	17	54 19	3 19
37	23	60 86	2 64	25	85 70	3 43	26	67 10	2 58	17	54 19	3 19
38	25	65 26	2 61	25	64 89	2 59	27	78 77	2 91	18	48 20	2 67
39	25	65 24	2 61	25	64 90	2 59	22	64 18	2 91	18	48 19	2 67
40	25	60 58	2 43	24	62 37	2 59	27	76 79	2 84	24	53 34	2 22
41	26	63 21	2 43	25	67 84	2 71	27	76 79	2 84	23	51 12	2 22
42	25	62 21	2 48	25	67 84	2 71	26	75 84	2 91	19	51 20	2 69
43	24	60 00	2 50	24	62 17	2 59	27	78 78	2 91	18	54 18	3 01
44	26	62 41	2 40	25	66 10	2 64	27	68 99	2 55	18	46 99	2 61
45	26	62 39	2 40	23	60 81	2 64	25	80 03	3 20	25	51 78	2 07
46	25	67 50	2 70	24	66 50	2 77	25	63 88	2 55	18	45 55	2 52
47	26	66 10	2 54	25	69 31	2 77	26	72 23	2 77	25	65 32	2 61
48	26	66 10	2 54	25	60 42	2 41	26	72 23	2 77	18 ¹ ₂	45 00	2 43
49	22	79 75	3 62	25	60 42	2 41	25	68 91	2 75	18 ¹ ₂	45 00	2 43
50	22	79 75	3 62	24	67 36	2 80	25	68 91	2 75	20	46 15	2 30
51	26	65 00	2 50	23	64 52	2 80	24 ¹ ₄	68 55	2 82	16	62 95	3 93
52	25	62 50	2 50	25	75 15	3 00	25	71 60	2 86	17 ¹ ₂	71 32	4 07
53	24	64 02	2 67	25	75 15	3 00	24	68 90	2 87	17	48 70	2 78
54	26	69 33	2 67	25	68 04	2 72	27	63 73	2 36	17	48 70	2 78
55	25	73 19	2 92	25	68 04	2 72	27	63 73	2 36	19	52 58	2 69
56	25	64 75	2 59	25	62 07	2 48	26	61 82	2 38	17	64 54	3 79
57	17	73 44	4 32	25	62 07	2 48	27	64 18	2 38	18	54 17	3 01

Individual and Average Earnings, &c.—Continued.

1888	JANUARY.			FEBRUARY.			MARCH.			APRIL.		
Individual miners.	Number of days worked.	Earnings for the month.	Earnings per day.	Number of days worked.	Earnings for the month.	Earnings per day.	Number of days worked.	Earnings for the month.	Earnings per day.	Number of days worked.	Earnings for the month.	Earnings per day.
58	25	\$61 25	\$2 45	24	\$60 61	\$2 52	26	\$71 75	\$2 76	17	\$50 40	\$2 88
59	26	60 55	2 33	25	74 65	2 98	26	71 73	2 76	17	50 40	2 88
60	26	61 22	2 35	25	74 65	2 98	27	67 35	2 49	18	61 25	3 31
61	26	61 21	2 35	25	66 50	2 66	24	60 24	2 51	18	61 25	3 31
62	24	74 50	3 10	23	77 59	3 37	26	60 30	2 32	18	48 63	2 63
63	25	76 48	3 06	25	60 75	2 43	26	60 30	2 32	18	48 63	2 63
64	25	76 48	3 06	25	60 75	2 43	25	71 25	2 85	18	55 73	3 09
65	25	70 20	2 80	24	69 91	2 91	25	71 24	2 85	18	55 73	3 09
66	25	70 20	2 80	24	69 89	2 91	26 $\frac{1}{2}$	72 71	2 74	18	70 09	3 89
67	25	67 39	2 69	24	60 64	2 52	24	65 78	2 74	16	62 30	3 89
68	24	64 70	2 69	25	63 14	2 52	24 $\frac{1}{2}$	60 61	2 47	18	62 91	3 49
69	...	...	...	24	66 71	2 78	25 $\frac{1}{2}$	63 09	2 47	18	62 96	3 49
70	...	...	...	23	63 94	2 78	26	64 55	2 48	18	46 75	2 59
71	...	...	...	25	61 79	2 47	26 $\frac{1}{2}$	64 56	2 43	18	46 75	2 59
72	...	...	...	27	60 81	2 25	25 $\frac{1}{2}$	62 14	2 43	18	53 03	2 94
73	...	...	...	24	68 91	2 87	25	66 36	2 65	...	...	...
74	...	...	...	23	71 56	3 11	24 $\frac{1}{2}$	64 99	2 65	...	...	...
75	...	...	...	23	71 57	3 11	25 $\frac{1}{2}$	65 32	2 56	...	...	...
76	...	...	...	24	65 48	2 73	25 $\frac{1}{2}$	65 32	2 56	...	...	...
77	...	...	...	24	65 48	2 73	25 $\frac{1}{2}$	66 79	2 61	...	...	...
78	...	...	...	24	71 89	2 99	25 $\frac{1}{2}$	66 79	2 61	...	...	...
79	...	...	...	24	71 90	2 99	25 $\frac{1}{2}$	60 62	2 37	...	...	...
80	...	...	...	24	72 62	3 02	25	75 34	3 01	...	...	...
81	...	...	...	23	75 67	3 29	27	81 35	3 01	...	...	...
82	...	...	...	25	76 41	3 05	27	63 19	2 34	...	...	...
83	...	...	...	25	76 41	3 05	27	63 10	2 34	...	...	...
84	...	...	...	...	...	...	22 $\frac{1}{2}$	67 93	3 02	...	...	...
85	...	...	...	...	...	...	22 $\frac{1}{2}$	67 92	3 02	...	...	...
86	...	...	...	...	...	...	26 $\frac{1}{2}$	62 11	2 34	...	...	...
87	...	...	...	...	...	...	27	73 04	2 70	...	...	...
88	...	...	...	...	...	...	27	73 03	2 70	...	...	...
89	...	...	...	...	...	...	26	83 23	3 20	...	...	...
JANUARY—							MARCH—					
Avg. daily wage of 68 miners,							Avg. daily wage of 89 miners,					
Average monthly earnings, .							Average monthly earnings, .					
Avg. monthly time, 25.2 days.							Avg. monthly time, 25.2 days.					
Average daily wage of all, 211							Average daily wage of all, 231					
miners,							miners,					
Average monthly earnings, .							Average monthly earnings, .					
Avg. monthly time, 23.9 days.							Avg. monthly time, 23 days.					
FEBRUARY—							APRIL—					
Avg. daily wage of 83 miners.							Avg. daily wage of 72 miners,					
Average monthly earnings, .							Average monthly earnings, .					
Avg. monthly time, 24.4 days.							Avg. monthly time, 19 days.					
Average daily wage of all, 234							Average daily wage of all, 230					
miners,							miners,					
Average monthly earnings, .							Average monthly earnings, .					
Avg. monthly time, 21.8 days.							Avg. monthly time, 17.2 days.					

Individual and Average Earnings, &c.—Continued.

1888	MAY.			JUNE.			JULY.			AUGUST.		
Individual miners.	Number of days worked.	Earnings for the month.	Earnings per day.	Number of days worked.	Earnings for the month.	Earnings per day.	Number of days worked.	Earnings for the year.	Earnings per day.	Number of days worked.	Earnings for the month.	Earnings per day.
1	23	\$72 52	\$3 15	14	\$56 02	\$4 00	25	\$55 00	\$2 20	27	\$60 06	\$2 22
2	23	72 50	3 15	25	59 35	2 37	25	81 90	3 27	27	71 33	2 64
3	22 ¹³⁰	77 41	3 44	25	57 21	2 28	23 ¹³⁰	55 40	2 38	23	60 89	2 64
4	22 ¹³⁰	77 39	3 44	23	55 30	2 40	23 ¹³⁰	55 38	2 38	27	69 39	2 57
5	23	77 11	3 35	21 ¹³⁰	50 33	2 34	22 ¹³⁰	49 78	2 23	27	69 39	2 57
6	23	77 11	3 35	21 ¹³⁰	50 32	2 34	22 ¹³⁰	49 77	2 23	27	68 86	2 55
7	24	80 45	3 35	20 ¹³⁰	60 77	2 96	20 ¹³⁰	53 13	2 55	27	68 86	2 55
8	24	80 45	3 35	20 ¹³⁰	60 76	2 96	20 ¹³⁰	53 13	2 55	26	66 48	2 55
9	25	80 76	3 23	22	51 01	2 32	19 ¹⁶⁰	46 51	2 37	27	69 05	2 55
10	23	74 24	3 23	22	51 01	2 32	19 ¹⁶⁰	46 51	2 37	27	71 33	2 64
11	24	68 36	2 84	21 ¹³⁰	50 47	2 34	19 ¹³⁰	46 91	2 43	26	68 33	2 62
12	22	62 66	2 84	21 ¹³⁰	52 90	2 46	18 ¹³⁰	45 88	2 44	27	60 55	2 24
13	26	68 72	2 64	21 ¹³⁰	52 90	2 46	24 ¹³⁰	61 53	2 51	27	60 55	2 24
14	25	66 08	2 64	22	62 40	2 83	24 ¹³⁰	61 53	2 51	27	73 72	2 73
15	25	69 12	2 76	23	63 46	2 76	19	47 09	2 47	27	73 72	2 73
16	25	69 12	2 76	21 ¹³⁰	52 39	2 43	18 ¹³⁰	49 65	2 68	19	110 70	5 82
17	26	62 43	2 40	23	95 15	4 13	18	48 35	2 68	29	65 17	2 24
18	26	62 43	2 40	20 ¹³⁰	63 59	3 10	18	58 47	3 24	27	60 68	2 24
19	25	64 35	2 57	21 ¹³⁰	51 64	2 40	19	74 58	3 92	26	73 91	2 84
20	25	64 34	2 57	26	50 92	1 96	20 ¹³⁰	66 22	3 23	27	84 88	3 14
21	25	66 68	2 66	20	52 80	2 64	23 ¹³⁰	51 03	2 15	26	85 76	3 29
22	25	66 69	2 66	26	62 61	2 40	23	49 53	2 15	20 ¹²	69 44	3 38
23	26	71 22	2 74	22	60 39	2 74	22	53 94	2 45	27	67 11	2 49
24	25	68 48	2 74	26	83 64	3 21	15 ¹⁴⁴	45 44	2 98	27	67 11	2 49
25	24	66 07	2 75	24	77 23	3 21	15 ¹⁴⁴	49 80	3 16	21	76 96	3 66
26	23	81 53	3 54	27	64 49	2 38	25	71 48	2 86	25	66 27	2 65
27	25	70 49	2 82	27	56 27	2 08	23 ¹³⁴	68 87	2 90	26	91 88	3 53
28	25	70 50	2 82	25	52 10	2 08	24	75 47	3 14	23	61 67	2 68
29	25	66 43	2 65	25 ¹²	60 56	2 37	24	48 73	2 03	27	78 22	2 89
30	26	62 30	2 39	26	61 95	2 38	24	46 96	1 95	27	68 94	2 55
31	26	80 12	3 08	24	72 67	3 02	23	55 50	2 41	27	66 94	2 55
32	21	63 90	3 04	25	75 72	3 02	20	46 46	2 32	26	64 47	2 48
33	21	63 90	3 04	23	51 23	2 22	20	46 46	2 32	27	82 62	3 06
34	20	63 76	3 18	25	59 84	2 39	24	57 62	2 40	26	79 56	3 06
35	20	63 74	3 18	25	62 95	2 51	22	53 63	2 44	27	71 27	2 64
36	19	65 75	3 46	26	65 45	2 51	18	45 27	2 51	26	68 65	2 64
37	19	65 74	3 46	26	59 15	2 28	20	57 90	2 89	27	64 10	2 37
38	20	61 49	3 07	26	61 89	2 38	24	82 68	3 44	26	61 74	2 37
39	20	61 49	3 07	26	53 45	2 05	22	48 13	2 18	24	72 13	3 00
40	24	74 82	3 11	24	57 14	2 38	22	48 12	2 18	24	72 11	3 00
41	21	60 05	2 86	26	60 14	2 31	17	40 95	2 41	27	69 98	2 59
42	21	60 04	2 86	26	60 13	2 31	17	40 95	2 41	27	69 97	2 59
43	20	64 63	3 23	26	54 48	2 09	19	46 86	2 46	25	62 78	2 51
44	20	64 63	3 23	24	50 19	2 09	19	46 84	2 46	25	61 68	2 46
45	22	61 49	2 80	26	62 10	2 39	23	46 45	2 02	20	70 47	3 52
46	23	64 74	2 81	26	62 10	2 39	18	48 92	2 72	26	69 34	2 66
47	19	60 80	3 20	26	61 60	2 37	18	48 92	2 72	26	69 33	2 66
48	20	64 00	3 20	26	61 60	2 37	23	50 40	2 19	24	64 27	2 67
49	24	63 30	2 63	25	75 08	3 00	23	46 65	2 03	23	61 62	2 67
50	24	66 80	2 78	25	75 07	3 00	23	46 65	2 03	25	63 82	2 55
51	24	75 40	3 14	26	55 80	2 11	23	56 52	2 46	27	65 64	2 43
52	24	75 39	3 14	26	55 80	2 14	22	54 06	2 46	26	60 53	2 33
53	24	68 10	2 84	20	58 07	2 90	22	50 16	2 28	27	62 87	2 33
54	24	68 10	2 84	25	61 38	2 45	22	50 16	2 28	26	65 38	2 51
55	24	82 83	3 45	23	58 11	2 52	23	54 89	2 38	27	79 53	2 94
56	24	82 82	3 45	26	61 00	2 34	24	46 80	1 95	27	79 52	2 94
57	24	71 35	2 97	26	61 00	2 34	24	46 60	1 94	26	76 12	2 92

Individual and Average Earnings, &c.—Continued.

1888	MAY.			JUNE.			JULY.			AUGUST.		
Individual miners.	Number of days worked.	Earnings for the month.	Earnings per day.	Number of days worked.	Earnings for the month.	Earnings per day.	Number of days worked.	Earnings for the month.	Earnings per day.	Number of days worked.	Earnings for the month.	Earnings per day.
58	24	\$71 35	\$2 97	26	\$52 23	\$2 01	24	\$50 65	\$2 11	27	\$79 04	\$2 92
59	24	69 40	2 89	26	62 89	2 41	24	50 66	2 11	27	78 53	2 91
60	22	63 60	2 88	26	62 88	2 41	21	64 31	3 06	27	78 52	2 91
61	23	76 72	3 33	23	57 08	2 48	21	64 31	3 06	24	75 18	3 13
62	24	80 05	3 33	25	51 00	2 04	21	46 98	2 23	24	75 17	3 13
63	24	77 60	3 23	22	51 48	2 34	21	46 98	2 23	26	70 95	2 72
64	24	77 60	3 23	26	60 83	2 34	23	51 12	2 22	26	70 95	2 72
65	24	69 77	2 90	25	50 73	2 03	23	46 50	2 02	26	65 29	2 51
66	24	69 76	2 90	25	56 32	2 25	23	46 50	2 02	27	67 77	2 51
67	25	63 95	2 55	26	55 97	2 15	20	51 88	2 59	26	67 24	2 58
68	22	72 00	3 27	26	55 96	2 15	19	49 34	2 59	26	67 24	2 58
69	22	73 81	3 35	27	73 66	2 72	25	51 23	2 05	26	73 68	2 83
70	22	74 80	3 40	26	63 34	2 43	25	50 30	2 01	25	70 82	2 83
71	24	74 45	3 10	25	52 83	2 11	23	46 30	2 01	25	61 21	2 45
72	23	71 35	3 10	25	52 77	2 11	24	48 46	2 02	25	61 21	2 45
73	24	70 12	2 92	26	52 68	2 02	24	45 94	1 91	24	61 26	2 55
74	24	70 12	2 92	26	52 67	2 02	23	59 24	2 57	26	66 50	2 55
75	24	78 80	3 28	26	58 60	2 25	22	56 16	2 55	27	65 17	2 41
76	24	78 80	3 28	26	58 60	2 25	24	59 15	2 46	27	65 17	2 41
77	21	72 18	3 43	25	71 31	2 85	24	46 87	1 95	26	72 44	2 78
78	23	73 46	3 19	22	67 85	3 08	24	46 88	1 95	24	66 84	2 78
79	23	73 45	3 19	24	74 29	3 09	21	61 34	2 92	27	72 13	2 67
80	23	67 40	2 93	26	56 95	2 19	21	47 51	2 26	27	72 13	2 67
81	23	67 39	2 93	26	56 93	2 19	23	49 54	2 15	26	67 97	2 61
82	24	69 96	2 91	23	63 44	2 76	24	51 70	2 15	26	67 95	2 61
83	24	69 96	2 91	23	63 43	2 76	25	46 08	1 84	27	73 81	2 73
84	24	68 60	2 86	25 ¹ ₂	63 97	2 50	23	70 03	3 04	26	71 07	2 73
85	24	68 60	2 86	25 ¹ ₂	63 98	2 50	23	70 03	3 04	27	74 87	2 77
86	24	73 06	3 04	26	60 20	2 31	23	49 50	2 15	27	74 87	2 77
87	23	69 44	3 02	26	60 20	2 31	20 ³ ₁₀	49 69	2 45	25	70 53	2 82
88	...	...	...	26	64 74	2 49	20 ³ ₁₀	49 70	2 45	27	74 53	2 76
89	...	...	...	26	64 74	2 49	26 ¹ ₁₀	58 70	2 26	27	60 52	2 24
90	...	...	...	26	50 94	1 96	...	...	...	27	60 53	2 24
91	...	...	...	26	61 50	2 36	...	...	...	26	73 15	2 81
92	...	...	...	26	61 50	2 36	...	...	...	26	73 15	2 81
93	...	...	...	23	65 84	2 86	...	...	...	27	70 08	2 59
94	...	...	...	...	...	...	...	...	...	27	70 08	2 59
95	...	...	...	...	...	...	...	...	...	27	72 00	2 66
96	...	...	...	...	...	...	...	...	...	27	72 00	2 66
97	...	...	...	...	...	...	...	...	...	26	62 15	2 39
98	...	...	...	...	...	...	...	...	...	26	62 15	2 39
99	...	...	...	...	...	...	...	...	...	27	65 17	2 41
MAY—												
Avg. daily wage of 87 miners,						\$2 97						
Average monthly earnings,						70 05						
Avg. monthly time, 23 ³ ₄ days.												
Average daily wage of all, 230 miners,						2 39						
Average monthly earnings,						51 68						
Avg. monthly time, 21.6 days.												
JUNE—												
Avg. daily wage of 93 miners,						2 47						
Average monthly earnings,						60 08						
Avg. monthly time 24.3 days.												
Average daily wage of all, 247 miners,						2 20						
Average monthly earnings,						42 45						
Avg. monthly time, 19.3 days.												
JULY—												
Avg. daily wage of 89 miners,						\$2 42						
Average monthly earnings,						52 98						
Avg. monthly time, 21.9 days.												
Average daily wage of all, 230 miners,						2 21						
Average monthly earnings,						38 99						
Avg. monthly time, 17.6 days.												
AUGUST—												
Avg. daily wage of 99 miners,						2 70						
Average monthly earnings,						69 88						
Avg. monthly time, 25.8 days.												
Average daily wage of all, 233 miners,						2 28						
Average monthly earnings,						54 89						
Avg. monthly time, 24 days.												

**Individual and Average Earnings of Miners in another Anthracite Colliery,
for the Year ending August 31, 1888.**

1887	SEPTEMBER.			OCTOBER.			NOVEMBER.			DECEMBER.		
Individual miners.	Number of days worked.	Earnings for the month.	Earnings per day.	Number of days worked.	Earnings for the month.	Earnings per day.	Number of days worked.	Earnings for the month.	Earnings per day.	Number of days worked.	Earnings for the month.	Earnings per day.
1	27	\$64 60	\$2 39	25	\$65 73	\$2 63	24	\$59 17	\$2 46	23	\$60 03	\$2 61
2	27	62 29	2 30	24	63 09	2 63	25	61 63	2 46	25	65 30	2 61
3	27	62 29	2 30	25	65 73	2 63	24	59 17	2 46	26	67 92	2 61
4	25	65 03	2 60	23	60 47	2 63	25	60 08	2 40	24	62 69	2 61
5	24	62 45	2 60	26	68 35	2 63	25	69 57	2 78	23	60 03	2 61
6	27	67 81	2 51	26	68 35	2 63	25	67 82	2 71	26	67 92	2 61
7	27	65 39	2 42	24	63 09	2 63	25	74 55	2 98	26	66 92	2 57
8	27	65 39	2 42	23	60 48	2 63	25	70 05	2 80	26	66 91	2 57
9	26	87 15	3 35	26	68 35	2 63	25	77 04	3 08	26	66 30	2 55
10	27	74 42	2 75	23	60 49	2 63	21	64 57	3 07	26	66 30	2 55
11	27	74 43	2 75	26	60 58	2 33	24	75 72	3 15	26	70 25	2 70
12	26	62 72	2 41	26	60 57	2 33	24	75 73	3 15	26	70 25	2 70
13	26	62 72	2 41	24	63 32	2 63	25	72 77	2 91	25	87 66	3 50
14	26	75 52	2 90	24	63 34	2 63	25	72 78	2 91	24	65 62	2 73
15	26	75 52	2 90	26	81 36	3 13	24	65 49	2 73	24	60 18	2 50
16	27	75 92	2 81	24	73 06	3 04	24	65 49	2 73	24	60 20	2 50
17	27	75 92	2 81	26	61 24	2 35	25	65 17	2 60	25	57 31	2 29
18	26	70 45	2 70	26	61 24	2 35	24	60 83	2 53	25	57 31	2 29
19	26	70 45	2 70	26	61 24	2 35	25	63 42	2 53	26	69 57	2 67
20	27	74 28	2 75	22	51 83	2 35	24	62 58	2 60	26	69 58	2 67
21	27	74 29	2 75	22	51 83	2 35	24	60 82	2 53	26	71 57	2 75
22	27	74 99	2 77	26	61 25	2 35	25	60 42	2 41	26	71 57	2 75
23	27	74 99	2 77	26	61 25	2 35	24	60 82	2 53	26	76 31	2 93
24	27	74 98	2 77	26	69 64	2 68	24	62 57	2 60	26	76 33	2 93
25	27	74 98	2 77	26	69 65	2 68	25	90 67	3 62	26	76 90	2 96
26	27	74 98	2 77	25	71 74	2 87	25	90 68	3 62	26	76 89	2 96
27	27	74 98	2 77	25	71 74	2 87	25	71 37	2 85	25	76 14	3 04
28	26	72 20	2 77	26	65 79	2 53	25	73 12	2 92	25	76 14	3 04
29	27	74 97	2 77	26	65 79	2 53	24	62 42	2 60	25	75 98	3 04
30	22	70 98	3 22	25	70 99	2 84	24	64 18	2 67	26	66 74	2 56
31	26	63 84	2 45	25	70 99	2 84	24	69 53	2 89	26	66 73	2 56
32	27	83 77	3 10	26	66 60	2 56	25	65 25	2 61	26	66 64	2 56
33	27	82 29	3 04	26	66 60	2 56	25	63 49	2 53	24	58 88	2 45
34	27	82 30	3 04	26	67 63	2 60	25	61 98	2 48	25	59 25	2 37
35	27	93 17	3 45	22	57 22	2 60	25	62 64	2 50	24	68 51	2 85
36	27	93 17	3 45	26	65 97	2 53	20	60 81	3 04	26	72 05	2 77
37	27	93 16	3 45	26	65 97	2 53	20	60 81	3 04	26	72 05	2 77
38	27	73 19	2 71	26	65 96	2 53	25	64 51	2 58	26	72 05	2 77
39	27	73 37	2 71	26	56 49	2 17	25	64 51	2 58	26	76 41	2 94
40	27	73 37	2 71	26	56 50	2 17	24	61 93	2 58	26	76 42	2 94
41	27	76 30	2 82	23	61 01	2 65	25	62 76	2 51	26	61 24	2 35
42	22	71 98	3 27	23	61 01	2 65	25	61 35	2 45	26	61 24	2 35
43	22	71 99	3 27	25	63 92	2 55	25	61 34	2 45	24	60 52	2 52
44	27	67 20	2 49	25	63 92	2 55	25	64 42	2 58	25	63 05	2 52
45	27	67 20	2 49	26	69 47	2 67	24	59 78	2 49	23	60 90	2 65
46	27	80 57	2 98	25	61 16	2 44	24	56 53	2 35	25	66 20	2 65
47	27	80 57	2 98	25	66 40	2 65	24	56 52	2 35	26	74 78	2 87
48	27	72 82	2 69	24	63 75	2 65	25	68 74	2 75	21	60 09	2 86
49	27	72 83	2 69	25	66 40	2 65	25	62 75	2 51	21	60 09	2 86
50	27	72 83	2 69	26	69 06	2 65	24	50 00	2 08	25	71 55	2 86
51	27	72 83	2 69	26	69 06	2 65	25	60 42	2 42	25	71 55	2 86
52	27	72 82	2 69	22	58 44	2 65	25	73 27	2 93	24	68 68	2 86
53	27	72 82	2 69	26	84 81	3 26	25	71 75	2 87	24	68 67	2 86
54	27	72 83	2 69	26	84 81	3 26	25	68 33	2 73	25	64 26	2 57
55	27	76 01	2 81	26	84 80	3 26	25	68 35	2 73	25	64 26	2 57
56	27	76 02	2 81	22	71 75	3 26	24	57 92	2 41	25	64 26	2 57
57	27	90 50	3 35	26	64 61	2 48	25	65 91	2 63	25	64 27	2 57

Individual and Average Earnings, &c.—Continued.

1887	SEPTEMBER.			OCTOBER.			NOVEMBER.			DECEMBER.		
Individual miners.	Number of days worked.	Earnings for the month.	Earnings per day.	Number of days worked.	Earnings for the month.	Earnings per day.	Number of days worked.	Earnings for the month.	Earnings per day.	Number of days worked.	Earnings for the month.	Earnings per day.
58	27	\$85 93	\$3 18	26	\$64 62	\$2 48	25	\$67 66	\$2 70	26	\$73 99	\$2 84
59	27	58 37	2 16	24	64 35	2 68	25	65 90	2 63	26	73 98	2 84
60	27	58 37	2 16	24	64 35	2 68	25	62 02	2 48	23	66 21	2 88
61	27	66 51	2 46	26	64 30	2 47	25	60 47	2 42	23	66 21	2 88
62	27	66 50	2 46	26	64 30	2 47	25	71 84	2 87	24	63 60	2 65
63	27	70 61	2 61	23	62 74	2 72	25	71 85	2 87	23	66 89	2 90
64	27	70 63	2 61	23	62 74	2 72	25	61 81	2 47	24	61 09	2 54
65	25	73 53	2 94	26	68 89	2 65	25	68 07	2 72	24	61 10	2 54
66	24	70 57	2 94	26	68 90	2 65	25	65 14	2 60	26	69 20	2 66
67	27	69 36	2 57	26	68 90	2 65	25	65 15	2 60	26	69 20	2 66
68	27	69 36	2 57	26	68 89	2 65	25	75 51	3 02	26	83 33	3 20
69	27	69 36	2 57	26	68 89	2 65	25	81 85	3 27	26	83 33	3 20
70	25	60 87	2 43	26	64 99	2 50	25	78 21	3 13	26	83 33	3 20
71	25	60 87	2 43	26	64 99	2 50	20	54 51	2 72	26	83 33	3 20
72	27	69 43	2 59	23	62 00	2 69	20	55 27	2 76	26	83 33	3 20
73	27	61 10	2 26	...	...	...	25	84 29	3 37	26	69 36	2 66
74	27	61 11	2 26	...	...	...	25	84 29	3 37	26	69 36	2 66
75	27	68 76	2 54	...	...	...	25	69 97	2 79	26	69 36	2 66
76	25	62 26	2 49	...	...	...	25	71 72	2 87	26	69 36	2 66
77	26	64 74	2 49	...	...	...	25	71 37	2 85	26	69 35	2 66
78	27	65 91	2 44	...	...	...	24	67 79	2 82	24	64 04	2 66
79	26	63 48	2 44	...	...	...	25	71 73	2 87	26	69 35	2 66
80	26	66 70	2 56	...	...	...	25	72 22	2 88	26	76 70	2 95
81	27	75 09	2 78	...	...	...	25	73 76	2 95	26	76 70	2 95
82	27	75 09	2 78	...	...	...	25	73 76	2 95	26	76 70	2 95
83	26	64 50	2 48	...	...	...	25	75 70	3 03	26	76 70	2 95
84	26	72 84	2 80	...	...	...	25	61 63	2 46	24	62 69	2 61
85	27	89 60	3 32	...	...	...	...	...	...	26	76 70	2 95
86	27	89 61	3 32	...	...	...	...	...	...	26	76 70	2 95
87	27	67 07	2 48	...	...	...	...	...	...	26	76 71	2 95
88	26	64 60	2 48	...	...	...	...	...	...	23	67 85	2 95
89	26	64 60	2 48	...	...	...	...	...	...	...	...	...
90	25	62 09	2 48	...	...	...	...	...	...	...	...	...
91	24	62 53	2 60	...	...	...	...	...	...	...	...	...
92	24	62 53	2 60	...	...	...	...	...	...	...	...	...
93	25	70 76	2 83	...	...	...	...	...	...	...	...	...
94	25	72 76	2 91	...	...	...	...	...	...	...	...	...
95	25	70 75	2 83	...	...	...	...	...	...	...	...	...
96	26	63 08	2 42	...	...	...	...	...	...	...	...	...
97	26	63 07	2 42	...	...	...	...	...	...	...	...	...
98	27	71 42	2 64	...	...	...	...	...	...	...	...	...
99	27	71 42	2 64	...	...	...	...	...	...	...	...	...
100	27	71 42	2 64	...	...	...	...	...	...	...	...	...
SEPTEMBER—							NOVEMBER—					
Avg. daily wage of 100 miners,							Avg. daily wage of 84 miners,					
Average monthly earnings, .							Average monthly earnings, .					
Avg. monthly time, 26.6 days.							Avg. monthly time, 24.4 days.					
Average daily wage of all, 319							Average daily wage of all, 330					
miners,							miners,					
Average monthly earnings, .							Average monthly earnings, .					
Avg. monthly time, 22 $\frac{3}{4}$ days.							Avg. monthly time, 22 days.					
OCTOBER—							DECEMBER—					
Avg. daily wage of 72 miners,							Avg. daily wage of 88 miners,					
Average monthly earnings, .							Average monthly earnings, .					
Avg. monthly time, 25 days.							Avg. monthly time, 25 $\frac{1}{2}$ days.					
Average daily wage of all, 332							Average daily wage of all, 231					
miners,							miners,					
Average monthly earnings, .							Average monthly earnings, .					
Avg. monthly time, 21 $\frac{1}{4}$ days.							Avg. monthly time, 23 days.					

Individual and Average Earnings, &c.—Continued.

1888	JANUARY.			FEBRUARY.			MARCH.			APRIL.		
Individual miners.	Number of days worked.	Earnings for the month.	Earnings per day.	Number of days worked.	Earnings for the month.	Earnings per day.	Number of days worked.	Earnings for the month.	Earnings per day.	Number of days worked.	Earnings for the month.	Earnings per day.
1	25	\$63 32	\$2 53	25	\$73 35	\$2 93	.	.	.	23	\$56 07	\$2 43
2	25	63 32	2 53	25	73 35	2 93	.	.	.	24	58 50	2 43
3	25	63 32	2 53	25	59 04	2 36	.	.	.	23	56 07	2 43
4	24	60 79	2 53	25	59 05	2 36	.	.	.	23	56 07	2 43
5	25	63 31	2 53	25	73 15	2 92	.	.	.	24	58 50	2 43
6	25	63 31	2 53	25	64 67	2 58	.	.	.	24	58 50	2 43
7	25	63 31	2 53	25	56 41	2 25	.	.	.	24	58 50	2 43
8	25	63 32	2 53	25	60 84	2 43	.	.	.	24	60 79	2 53
9	26	74 38	2 86	25	60 84	2 43	.	.	.	23	58 25	2 53
10	26	74 38	2 86	25	60 84	2 43	.	.	.	22	55 71	2 53
11	26	66 58	2 56	25	60 84	2 43	.	.	.	23	58 25	2 53
12	26	66 58	2 56	25	60 84	2 43	.	.	.	24	60 79	2 53
13	25	62 27	2 49	25	60 84	2 43	.	.	.	24	60 79	2 53
14	25	62 27	2 49	25	60 84	2 43	.	.	.	24	60 79	2 53
15	25	77 59	3 10	25	77 16	3 09	.	.	.	24	60 79	2 53
16	25	77 58	3 10	25	77 17	3 09	.	.	.	23	51 62	2 24
17	22	71 74	3 26	21	58 77	2 80	.	.	.	23	51 62	2 24
18	24	81 08	3 37	25	70 21	2 80	.	.	.	23	56 68	2 46
19	24	82 42	3 43	25	79 62	3 18	.	.	.	25	61 61	2 46
20	25	66 22	2 65	25	79 62	3 18	.	.	.	19	62 08	3 26
21	25	66 21	2 65	25	79 62	3 18	.	.	.	19	62 07	3 26
22	26	65 54	2 52	23	55 61	2 42	.	.	.	25	65 66	2 62
23	26	65 54	2 52	23	55 61	2 42	.	.	.	23	62 79	2 62
24	26	65 54	2 52	23	55 61	2 42	.	.	.	24	66 61	2 77
25	26	65 54	2 52	24	60 17	2 50	.	.	.	21	58 27	2 77
26	26	65 54	2 52	24	60 16	2 50	.	.	.	24	67 75	2 82
27	26	65 53	2 52	25	63 87	2 55	.	.	.	24	67 75	2 82
28	26	65 53	2 52	21	53 66	2 55	.	.	.	24	63 69	2 65
29	24	60 86	2 53	25	73 42	2 93	.	.	.	22	58 37	2 65
30	26	65 91	2 53	25	73 41	2 93	.	.	.	24	75 01	3 12
31	25	63 09	2 52	25	74 29	2 97	.	.	.	24	75 01	3 12
32	26	66 84	2 57	25	74 30	2 97	.	.	.	24	77 81	3 24
33	25	64 26	2 57	25	78 33	3 13	.	.	.	24	77 82	3 24
34	24	61 68	2 57	25	78 32	3 13	.	.	.	24	71 82	2 99
35	25	64 26	2 57	25	77 92	3 12	.	.	.	22	65 84	2 99
36	25	63 58	2 54	19	58 23	3 06	.	.	.	24	67 74	2 82
37	25	63 58	2 54	20	60 98	3 05	.	.	.	24	67 93	2 83
38	26	60 64	2 33	19	58 24	3 06	.	.	.	24	68 95	2 87
39	26	60 64	2 33	21	63 73	3 03	.	.	.	24	68 95	2 87
40	25	65 20	2 60	20	60 98	3 05	.	.	.	24	62 17	2 59
41	24	65 21	2 71	20	60 98	3 05	.	.	.	24	62 17	2 59
42	26	68 89	2 65	21	64 00	3 05	.	.	.	22	56 07	2 55
43	26	68 88	2 65	20	60 95	3 05	.	.	.	22	56 08	2 55
44	26	62 88	2 42	21	64 00	3 05	.	.	.	21	58 34	2 78
45	26	62 88	2 42	21	64 00	3 05	.	.	.	24	60 33	2 51
46	25	65 25	2 61	20	60 50	3 02	.	.	.	23	57 83	2 51
47	24	62 63	2 61	20	58 50	2 92	.	.	.	23	62 51	2 72
48	26	64 34	2 47	25	64 55	2 58	.	.	.	15	47 67	3 17
49	21	51 97	2 47	25	64 55	2 58	.	.	.	24	64 71	2 69
50	25	69 44	2 77	25	81 95	3 27	.	.	.	24	64 71	2 69
51	26	72 21	2 77	25	81 95	3 27	.	.	.	24	81 82	3 41
52	26	72 21	2 77	25	68 06	2 72	.	.	.	24	81 82	3 41
53	25	69 44	2 77	23	62 63	2 72	.	.	.	25	83 75	3 35
54	26	72 21	2 77	24	66 48	2 77	.	.	.	25	83 74	3 35
55	26	68 65	2 64	24	66 47	2 77	.	.	.	22	71 12	3 23
56	26	68 65	2 64	25	74 70	2 98	.	.	.	24	77 56	3 23
57	26	68 65	2 64	25	74 70	2 98	.	.	.	25	86 11	3 44
58	26	68 65	2 64	24	71 71	2 99	.	.	.	24	82 84	3 45

Individual and Average Earnings, &c.—Continued.

1888	JANUARY.			FEBRUARY.			MARCH.			APRIL.		
Individual miners.	Number of days worked.	Earnings for the month.	Earnings per day.	Number of days worked.	Earnings for the month.	Earnings per day.	Number of days worked.	Earnings for the month.	Earnings per day.	Number of days worked.	Earnings for the month.	Earnings per day.
59	25	\$72 17	\$2 88	21	\$62 77	\$2 99	..	..	..	24	\$53 09	\$2 21
60	25	72 17	2 88	25	74 70	2 98	..	..	..	24	63 94	2 66
61	26	72 93	2 80	24	71 71	2 99	..	..	..	24	63 94	2 66
62	26	72 92	2 80	24	68 64	2 86	..	..	..	24	63 94	2 66
63	25	72 30	2 89	24	68 64	2 86	..	..	..	24	63 94	2 66
64	25	72 30	2 89	20	57 21	2 86	..	..	..	24	63 94	2 66
65	21	60 72	2 89	21	60 05	2 86	..	..	..	24	63 94	2 66
66	24	61 48	2 56	25	71 50	2 86	..	..	..	24	63 94	2 66
67	25	79 18	3 16	23	65 79	2 86	..	..	..	24	58 25	2 42
68	25	79 18	3 16	25	59 82	2 39	..	..	..	24	58 24	2 42
69	25	67 06	2 68	25	59 82	2 39	..	..	..	23	60 31	2 62
70	25	67 06	2 68	23	75 79	3 29	..	..	..	23	60 55	2 63
71	26	81 42	3 13	18	59 32	3 29	..	..	..	23	71 44	3 10
72	26	81 41	3 13	19	50 50	2 66	..	..	..	23	55 50	2 41
73	23	72 02	3 13	18	64 44	3 58	..	..	..	23	59 90	2 60
74	26	81 42	3 13	25	88 24	3 53	..	..	..	24	66 75	2 78
75	25	78 29	3 13	25	74 82	2 99	..	..	..	24	61 72	2 57
76	24	77 18	3 21	25	74 82	2 99	..	..	..	24	84 03	3 50
77	23	73 97	3 21	25	74 81	2 99	..	..	..	24	84 04	3 50
78	25	80 38	3 21	25	70 57	2 82	..	..	..	24	83 80	3 49
79	24	77 17	3 21	21	62 52	2 98	..	..	..	23	64 13	2 78
80	26	83 69	3 21	21	62 52	2 98	..	..	..	24	66 92	2 78
81	23	73 97	3 21	22	65 40	2 97	..	..	..	25	74 54	2 98
82	25	80 38	3 21	22	65 40	2 97	..	..	..	25	74 55	2 98
83	..	..	..	..	..	..	..	..	..	22	71 17	3 23
84	..	..	..	..	..	..	..	..	..	24	59 77	2 49
85	..	..	..	..	..	..	..	..	..	24	68 22	2 84
JANUARY—							MARCH—					
Avg. daily wage of 82 miners,							Avg. daily wage of 85 miners,					
Average monthly earnings, .							Average monthly earnings, .					
Avg. monthly time, 25 days.							Avg. monthly time, 21½ days.					
Average daily wage of all, 302 miners,							Average daily wage of all, 333 miners,					
Average monthly earnings, .							Average monthly earnings, .					
Avg. monthly time, 24 days.							Avg. monthly time, 21 days.					
FEBRUARY—							APRIL—					
Avg. daily wage of 82 miners,							Avg. daily wage of 85 miners,					
Average monthly earnings, .							Average monthly earnings, .					
Avg. monthly time, 23¾ days.							Avg. monthly time, 23.4 days.					
Average daily wage of all, 335 miners,							Average daily wage of all, 325 miners,					
Average monthly earnings, .							Average monthly earnings, .					
Avg. monthly time, 20¼ days.							Avg. monthly time, 18 days.					

Individual and Average Earnings, &c.—Continued.

1888	MAY.			JUNE.			JULY.			AUGUST.		
Individual rainers.	Number of days worked.	Earnings for the month.	Earnings per day.	Number of days worked.	Earnings for the month.	Earnings per day.	Number of days worked.	Earnings for the month.	Earnings per day.	Number of days worked.	Earnings for the month.	Earnings per day.
1	26	\$61 13	\$2 35	25	\$55 30	\$2 21	25	\$56 81	\$2 27	27	\$52 70	\$1 95
2	26	61 13	2 35	23	50 87	2 21	17	38 64	2 27	26	50 74	1 95
3	26	61 13	2 35	24	53 10	2 21	25	56 81	2 27	26	50 74	1 95
4	26	61 13	2 35	26	57 51	2 21	25	56 81	2 27	26	50 74	1 95
5	26	61 14	2 35	25	55 30	2 21	24	54 54	2 27	27	52 70	1 95
6	26	61 13	2 35	26	57 51	2 21	24	54 54	2 27	26	50 74	1 95
7	26	61 13	2 35	25	55 29	2 21	25	77 24	3 09	27	52 68	1 95
8	26	61 14	2 35	25	55 30	2 21	25	77 24	3 09	27	68 59	2 54
9	26	66 08	2 54	26	65 32	2 51	20	51 65	2 58	27	68 60	2 54
10	26	66 08	2 54	26	65 32	2 51	25	49 94	2 00	27	82 26	3 04
11	26	66 08	2 54	25	56 39	2 25	25	49 94	2 00	27	82 25	3 04
12	25	63 55	2 54	25	56 38	2 25	25	49 94	2 00	27	58 56	2 17
13	25	63 55	2 54	26	71 24	2 74	25	49 94	2 00	27	58 55	2 17
14	24	60 98	2 54	26	71 24	2 74	23	57 73	2 51	27	74 76	2 77
15	26	66 08	2 54	26	59 20	2 28	25	72 98	2 92	27	74 76	2 77
16	25	63 54	2 54	26	59 20	2 28	25	72 98	2 92	27	74 76	2 77
17	26	69 99	2 69	24	61 93	2 58	25	72 99	2 92	27	74 76	2 77
18	26	69 99	2 69	26	67 10	2 58	25	72 99	2 92	27	74 75	2 77
19	23	64 21	2 79	24	69 60	2 90	25	72 98	2 92	27	76 47	2 83
20	24	67 01	2 79	24	69 60	2 90	25	67 71	2 70	27	76 46	2 83
21	26	88 75	3 41	21	68 18	3 24	25	67 70	2 70	27	82 90	3 07
22	26	88 75	3 41	24	77 91	3 24	25	86 52	3 46	25	76 76	3 07
23	26	71 96	2 76	26	71 61	2 75	25	86 52	3 46	25	76 78	3 07
24	26	71 95	2 76	26	71 61	2 75	25	63 63	2 54	26	60 11	2 31
25	26	80 62	3 10	22	60 61	2 75	23	53 59	2 33	25	57 81	2 31
26	26	80 61	3 10	26	71 61	2 75	25	76 39	3 05	27	71 91	2 66
27	26	87 03	3 34	25	68 86	2 75	25	76 39	3 05	27	71 90	2 66
28	26	70 70	2 72	24	66 11	2 75	25	53 54	2 14	26	75 52	2 90
29	26	70 70	2 72	24	68 76	2 86	25	73 77	2 95	26	75 52	2 90
30	26	70 71	2 72	24	68 75	2 86	25	73 77	2 95	24	64 95	2 70
31	26	66 02	2 54	26	61 86	2 38	24	74 98	3 12	27	70 32	2 60
32	26	66 02	2 54	24	57 10	2 38	25	78 09	3 12	27	70 32	2 60
33	26	66 02	2 54	25	67 60	2 70	25	80 22	3 21	27	78 30	2 90
34	26	68 19	2 62	25	67 60	2 70	25	80 21	3 21	27	78 29	2 90
35	26	52 46	2 02	24	66 45	2 77	25	81 76	3 27	26	72 60	2 79
36	26	86 73	3 33	24	66 45	2 77	25	81 77	3 27	26	72 59	2 79
37	26	86 73	3 33	23	63 69	2 77	25	81 18	3 25	27	78 59	2 91
38	25	83 41	3 33	26	69 42	2 67	25	81 18	3 25	26	65 98	2 53
39	26	86 73	3 33	26	69 02	2 65	26	80 56	3 10	27	68 51	2 54
40	24	80 08	3 33	24	60 60	2 52	25	76 12	3 05	25	70 73	2 83
41	26	65 57	2 52	24	60 59	2 52	23	70 04	3 05	26	73 56	2 83
42	26	65 57	2 52	26	65 03	2 50	23	77 61	3 37	25	70 73	2 83
43	24	60 53	2 52	26	65 02	2 50	18	60 73	3 37	25	70 73	2 83
44	22	66 25	3 01	26	77 31	2 97	25	71 52	2 86	24	67 91	2 83
45	22	66 26	3 01	26	77 30	2 97	25	71 53	2 86	23	65 09	2 83
46	26	71 64	2 75	26	71 53	2 75	25	78 45	3 14	27	76 39	2 83
47	26	71 63	2 75	25	68 78	2 75	25	78 45	3 14	22	62 27	2 83
48	26	66 83	2 57	26	60 94	2 34	25	58 67	2 35	27	76 39	2 83
49	26	66 82	2 57	26	57 44	2 21	21	57 65	2 74	27	74 85	2 77
50	26	77 87	2 99	23	57 78	2 51	21	57 65	2 74	27	74 85	2 77
51	25	74 88	2 99	25	57 05	2 28	25	65 77	2 63	27	74 86	2 77
52	26	77 87	2 99	25	57 05	2 28	25	65 77	2 63	26	72 08	2 77
53	24	71 89	2 99	25	64 83	2 59	25	69 98	2 80	26	72 08	2 77
54	26	71 23	2 74	24	65 07	2 71	25	69 98	2 80	27	74 85	2 77
55	23	63 01	2 74	26	70 21	2 70	24	87 82	3 65	27	74 86	2 77
56	26	74 17	2 74	26	70 21	2 70	24	87 82	3 65	24	66 52	2 77
57	26	74 17	2 74	26	70 21	2 70	23	84 17	3 66	24	66 53	2 77

Individual and Average Earnings, &c.—Continued.

1888	MAY.			JUNE.			JULY.			AUGUST.		
Individual miners.	Number of days worked.	Earnings for the month.	Earnings per day.	Number of days worked.	Earnings for the month.	Earnings per day.	Number of days worked.	Earnings for the month.	Earnings per day.	Number of days worked.	Earnings for the month.	Earnings per day.
58	26	\$70 84	\$2 72	26	\$70 21	\$2 70	24	\$87 81	\$3 66	27	\$72 53	\$2 68
59	26	70 83	2 72	26	70 21	2 70	24	87 80	3 66	24	64 47	2 68
60	26	83 49	3 21	26	66 72	2 57	25	76 80	3 07	21	52 91	2 52
61	26	83 50	3 21	26	66 71	2 57	25	76 80	3 07	27	68 02	2 52
62	26	73 47	2 82	26	60 16	2 31	25	76 80	3 07	26	66 25	2 55
63	26	73 47	2 82	26	60 15	2 31	25	76 80	3 07	26	66 24	2 55
64	26	73 38	2 82	24	66 05	2 75	25	76 80	3 07	27	70 05	2 59
65	26	73 37	2 82	24	66 05	2 75	25	76 80	3 07	27	70 04	2 59
66	22	61 06	2 78	25	75 59	3 02	25	76 52	3 06	27	64 29	2 38
67	22	61 06	2 78	25	75 59	3 02	23	70 41	3 06	26	61 92	2 38
68	21	62 20	2 96	24	64 19	2 67	25	63 60	2 54	26	61 91	2 38
69	21	62 20	2 96	25	63 71	2 55	25	63 59	2 54	27	64 29	2 38
70	26	79 39	3 05	25	63 71	2 55	25	60 22	2 41	26	100 93	3 88
71	20	59 39	2 97	25	63 72	2 55	20	56 58	2 83	26	100 94	3 88
72	20	59 39	2 97	24	61 18	2 55	25	70 70	2 83	27	93 67	3 47
73	23	68 30	2 97	...	...	...	25	70 70	2 83	27	93 68	3 47
74	26	77 20	2 97	...	...	...	25	70 72	2 83	26	48 64	1 87
75	...	...	...	...	...	...	25	60 20	2 41	26	48 62	1 87
76	...	...	...	...	...	...	25	61 08	2 44	...	...	...
77	...	...	...	...	...	...	25	61 08	2 44	...	...	...
78	...	...	...	...	...	...	25	61 08	2 44	...	...	...
79	...	...	...	...	...	...	24	58 64	2 44	...	...	...
80	...	...	...	...	...	...	18	43 97	2 44	...	...	...
MAY—							JULY—					
Avg. daily wage of 74 miners,							Avg. daily wage of 80 miners,					
Average monthly earnings, .							Average monthly earnings, .					
Avg. monthly time, 25 days.							Avg. monthly time, 24½ days.					
Average daily wage of all, 325							Average daily wage of all, 290					
miners,							miners,					
Average monthly earnings, .							Average monthly earnings, .					
Avg. monthly time, 20 days.							Avg. monthly time, 21¼ days.					
JUNE—							AUGUST—					
Avg. daily wage of 72 miners,							Avg. daily wage of 75 miners,					
Average monthly earnings, .							Average monthly earnings, .					
Avg. monthly time, 25 days.							Avg. monthly time, 26½ days.					
Average daily wage of all, 325							Average daily wage of all, 265					
miners,							miners,					
Average monthly earnings, .							Average monthly earnings, .					
Avg. monthly time, 20 days.							Avg. monthly time, 26 days.					



GENERAL WAGE STATISTICS.

The law under which the Bureau exists requires that it shall collect, compile and publish statistics of the wages of labor. In obedience to this requirement, the following statistics are presented of the wages paid by many of the employers of labor, and of the days their respective establishments were in operation during the year. These statistics have been collected by the blank system, and are by no means complete, but are the fullest that could be obtained by that method, which is the only one the Bureau could use. In many cases the returns are sufficient in number to show clearly the rate of wages generally paid, but not in all. In the Report of last year some of the difficulties were described in ascertaining the earnings of workingmen. It may be noted that in the following tables these have not been presented, but simply the rate of wages and the days that the various industrial works were in operation. One can, however, from this data form some conclusions of the earnings of workingmen assuming that their period of employment was similar to the period of activity of the concern in which they were engaged. Those who desire more useful figures are referred to the Report of last year in which, in our judgment, the most accurate information was given of the earnings of workingmen in the more important industries in the State that has ever been published. This is especially true of the iron industries. Such methods were adopted and pursued that the results obtained and published, it is believed, can successfully withstand the assaults of all criticism. But much time was required to prepare them, and the work could not well be continued. The difficulty is in working out the facts. If an employer had only a few men, it would be an easy thing to find out how many days each man worked during the year, and what he received for his labor; but when an employer has three or four thousand men, the task is greatly increased. There are twenty-six pay-rolls to examine, some of the men are irregular from sickness or other cause, some leave and others are employed to fill their places, therefore, to ascertain the exact earnings of all and to classify them correctly, cannot be easily done. Yet this was done last year by some of the largest employers in the State, and the results appear in the preceding Report. The following statistics begin with the wages of persons employed inside and outside mines, not including contract miners.

DAILY WAGE STATISTICS.

ANTHRACITE—Daily Wage of all Inside Employees except Contract Miners

Number.	Day or company miners.	Company laborers.	Miners' laborers.	Engineers.	Engineers.	Engineers.	Fire-boss assistants.	Timber-men.	Brattice-men.	Prop-men.	Prop-men.	Culm-men.	Foot-men.	Pump-men.	Fan-men.	Fan-men.	Track-layers.	Track-layers' helpers.	Runners.	Plane-runners.	Driver-boss.	Drivers, first-class.
1 A.	\$1 98	\$1 69	\$2 00	\$2 00	...	...	...	...	...	...	...	{ \$1 38 } to { 1 47 }	...	\$1 55	...	...	\$2 11	\$1 69	\$1 15	\$1 57	\$2 05	\$0 83
1 B.	1 98	1 69	1 75	1 96	...	...	...	...	...	...	...	{ 1 38 } to { 1 47 }	\$1 69	1 35	...	...	...	...	1 48	1 26	2 05	91
1 C.	1 98	1 69	1 75	...	...	...	...	...	...	...	...	{ 1 38 } to { 1 47 }	1 69	1 55	...	...	...	...	1 12	...	2 05	95
1 D.	1 98	1 69	1 75	1 96	...	...	\$1 98	...	...	...	...	{ 1 38 } to { 1 47 }	1 69	...	...	...	...	...	1 12	1 58	2 05	95
1 E.	1 98	1 69	1 75	...	...	...	...	...	...	...	...	{ 1 38 } to { 1 47 }	...	...	...	...	2 15	1 69	1 05	...	2 05	83
1 F.	1 98	1 69	1 82	2 00	...	...	...	\$1 98	\$1 98	\$1 98	\$1 69	{ 1 47 }	1 69	1 55	...	...	2 19	1 69	1 69	1 69	1 98	1 47
1 G.	1 98	1 69	1 75	...	...	...	...	...	...	...	...	{ 1 38 } to { 1 47 }	1 58	1 75	...	...	2 15	1 69	1 05	1 58	2 05	83
1 H.	1 98	1 69	1 75	...	...	...	...	...	...	...	...	{ 1 38 } to { 1 47 }	...	1 55	...	...	2 15	1 69	1 05	1 53	2 15	83
1 I.	1 98	1 69	1 75	...	...	...	...	...	...	...	...	{ 1 38 } to { 1 47 }	...	...	...	...	2 15	1 69	1 05	1 58	2 05	83
1 J.	1 98	1 69	2 00	2 02	...	...	...	...	...	...	...	{ 1 32 } to { 1 43 }	1 54	1 54	...	...	2 11	1 69	1 21	1 54	2 05	88
1 K.	1 98	1 69	2 00	2 02	\$1 55	...	...	...	1 69	1 98	1 69	1 51	1 69	1 55	...	...	...	...	{ 1 25 } to { 1 51 }	...	2 15	1 05

1 L.	1 98	1 69	$\left\{ \begin{smallmatrix} 2\ 00 \\ \text{to} \\ 2\ 20 \end{smallmatrix} \right\}$	2 05	..	..	2 19	1 69	..	..	1 98	..	1 69	$\left\{ \begin{smallmatrix} 1\ 74 \\ \text{to} \\ 1\ 84 \end{smallmatrix} \right\}$	\$1 45	..	2 19	1 69	1 65	1 69	1 98	1 37
1 M.	1 98	1 69	2 00	..	..	..	2 15	1 69	..	..	1 98	..	1 69	1 65	..	..	..	..	..	1 51	2 05	1 05
2.	1 87	1 60	1 60	..	..	..	2 00	..	..	..	..	..	..	..	..	..	..	..	1 33	1 33	1 70	1 33
3.	1 93	$\left\{ \begin{smallmatrix} 1\ 52 \\ \text{to} \\ 1\ 66 \end{smallmatrix} \right\}$	1 52	..	..	..	..	..	..	..	1 93	1 66	1 52	1 40	..	..	1 93	1 52	1 52	..	..	1 66
4.	2 00	1 70	1 83	..	..	..	2 00	..	..	..	2 00	2 00	2 00	$\left\{ \begin{smallmatrix} 1\ 50 \\ \text{to} \\ 2\ 00 \end{smallmatrix} \right\}$	1 70	..	2 00	1 70	2 00	1 78	..	2 00
5.	1 92	1 67	1 83	1 92	..	..	1 83	..	..	..	1 54	1 83	1 83	1 75	..	..	1 83	1 67	1 50	..	1 92	1 80
6.	1 83	1 67	1 67	1 92	1 87	\$1 83	1 83	1 71	..	..	1 71	1 92	1 71	1 75	..	..	1 92	1 67	..	..	2 00	1 71
7.	2 10	1 90	2 00	2 15	2 00	1 50	2 75	2 00	2 00	2 00	2 00	2 00	1 90	..	..	2 00	1 80	2 00	2 00	2 00	2 00	1 90
8.	1 93	1 69	1 83	1 85	..	..	2 00	..	..	..	1 99	2 66	..	..	..	..	..	..	..	..	1 69	1 83
9.	1 95	1 67	1 67	..	..	..	..	..	..	..	1 95	1 67	..	..	..	..	1 95	1 67	1 67	1 67	..	1 67
10.	2 00	1 70	1 70	2 00	..	..	2 33	2 00	2 00	2 00	2 00	2 00	..	1 83	1 00	\$0 92	1 83	1 70	..	$\left\{ \begin{smallmatrix} 1\ 70 \\ \text{to} \\ 1\ 83 \end{smallmatrix} \right\}$	..	1 70
11.	1 98	$\left\{ \begin{smallmatrix} 1\ 43 \\ \text{to} \\ 1\ 61 \end{smallmatrix} \right\}$	..	..	..	..	..	..	..	1 61	..	..	..	..	..	..	1 78	..	1 61	1 33	2 42	1 61
12.	2 23	1 69	2 04	2 31	2 10	..	2 66	2 47	2 23	2 23	1 54	2 33	..	1 69	..	..	2 23	1 69	1 69	1 69	1 92	1 54
13.	1 75	1 50	1 75	..	..	..	..	..	1 50	..	1 50	..	..	..	..	..	2 00	1 50	1 65	..	1 75	1 25
14.	1 97 $\frac{1}{2}$	$\left\{ \begin{smallmatrix} 1\ 62\frac{1}{2} \\ \text{to} \\ 1\ 78\frac{1}{2} \end{smallmatrix} \right\}$	1 75	1 73	1 60	1 50	2 50	2 00	2 04	..	..	..	..	1 50	..	..	2 04	1 78 $\frac{1}{2}$	1 88 $\frac{3}{4}$	..	..	1 88 $\frac{3}{4}$
15.	2 00	$\left\{ \begin{smallmatrix} 1\ 66 \\ \text{to} \\ 1\ 70 \end{smallmatrix} \right\}$	$\left\{ \begin{smallmatrix} 2\ 10\frac{2}{3} \\ \text{to} \\ 2\ 16\frac{2}{3} \end{smallmatrix} \right\}$	..	..	..	2 33 $\frac{1}{3}$	..	2 00	2 00	..	2 00	..	$\left\{ \begin{smallmatrix} 1\ 70 \\ \text{to} \\ 1\ 83\frac{1}{2} \end{smallmatrix} \right\}$	..	..	2 00	1 66 $\frac{2}{3}$	1 70	..	2 00	1 70
16.	1 98	1 47	1 78	2 00	..	..	..	..	1 47	1 47	1 47	1 98	..	1 45	..	..	2 11	1 47	1 45	1 50	1 85	1 25
17.	1 93	1 66	1 66	1 66	1 40	1 10	..	..	1 93	1 93	1 66	1 66	..	1 66	1 15	1 05	1 93	1 66	$\left\{ \begin{smallmatrix} 80 \\ \text{to} \\ 1\ 00 \end{smallmatrix} \right\}$	1 66	1 66	1 63
18.	1 95	1 70	1 83 $\frac{1}{3}$	2 00	..	..	2 25	..	2 00	..	1 35	..	1 97	1 50	..	..	1 95	1 70	1 70	1 95	2 25	1 95
19.	2 23	1 81	1 81	1 78	..	..	..	..	1 67	2 63	2 03	..	1 85	..	..	..	2 03	1 81	1 81	1 81	2 03	1 56
20.	2 25	$\left\{ \begin{smallmatrix} 1\ 69 \\ \text{to} \\ 1\ 88 \end{smallmatrix} \right\}$	2 10	..	..	..	2 75	..	2 25	1 88	2 10	1 88	..	1 80	..	..	2 25	$\left\{ \begin{smallmatrix} 1\ 88 \\ \text{to} \\ 2\ 10 \end{smallmatrix} \right\}$	1 88	1 88	2 50	1 62
21.	2 00	1 70	1 83	2 08	..	..	2 17	..	..	2 00	2 00	..	1 83	2 08	..	..	2 00	1 70	1 70	1 83	..	1 70
22.	1 97	1 67	1 67	..	..	..	..	..	1 97	..	..	..	1 67	1 40	..	..	1 97	..	..	1 67	..	1 67
23.	1 86 $\frac{2}{3}$	$\left\{ \begin{smallmatrix} 1\ 58\frac{1}{3} \\ \text{to} \\ 1\ 66\frac{2}{3} \end{smallmatrix} \right\}$	1 66	1 96	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1 63 $\frac{1}{3}$
24.	2 17	1 75	2 00	2 00	..	..	2 50	..	2 25	2 00	2 00	..	1 80	..	..	..	2 25	2 00	1 75	2 00	2 25	1 75
25.	1 87	1 64	1 64	2 00	..	..	1 92	..	..	1 75	..	..	1 79	..	..	..	1 92	..	1 54	1 58	1 75	1 58
26.	1 98	1 65	2 00	2 00	..	..	1 98	..	2 00	1 45	1 45	1 45	1 65	..	..	..	2 15	1 65	1 65	..	2 25	1 48

Daily Wages—Continued.

Number.	Day or company miners.	Company laborers.	Miners' laborers.	Engineers.	Engineers.	Engineers.	Engineers.	Carpenters.	Carpenters.	Carpenters.	Fire-boss.	Fire-boss assistant.	Timber-men.	Brattice-men.	Prop-men.	Prop-men.	Prop-men.	Prop-men.	Culm-men.	Foot-men.	Pump-men.	Fan-men.	Fan-men.	Fan-men.	Track-layers.	Track-layers helpers.	Runners.	Plane-runners.	Driver-boss.	Drivers, first-class.
27.	\$2 00	\$1 30	\$1 25	\$1 83	\$1 83	\$1 83	\$1 70	..	..	..	\$2 00	..	\$1 85	..	\$1 00	..	..	..	..	..	..	..	..	..	\$1 85	\$1 50	..	..	..	\$1 75
28.	2 00	1 70	1 70	1 83	1 83	1 83	1 70	..	..	..	2 00	..	2 00	..	..	..	..	..	..	..	..	..	..	..	2 00	1 70	\$1 70	..	\$1 83	1 83
29.	2 00	1 70	1 70	1 83	1 83	1 83	1 70	..	..	..	..	..	2 00	..	..	..	..	..	..	..	..	..	..	..	2 00	1 70	1 70	..	..	1 70
30.	1 99	1 52	1 52	1 72	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1 65
31.	1 93	1 66	1 66	1 75	2 05	2 05	1 75	..	..	..	1 93	..	1 93	..	..	..	..	..	..	1 66	1 66	1 66	1 66	1 93	1 66	1 66	1 66	1 93	1 66	1 66
32.	2 20	1 90	2 11	2 25	2 05	2 05	1 75	2 25	\$1 85	\$1 85	2 30	\$1 75	2 00	\$2 20	1 75	\$1 45	\$1 35	..	..	1 59	1 56	1 60	1 35	..	2 20	1 45	1 60	1 40	2 00	1 20
33.	1 99	1 72	1 66	1 75	..	..	..	..	..	..	1 99	..	1 99	1 72	..	..	..	..	..	..	..	..	..	1 99	1 72	..	..	..	..	1 66

Daily Wages—Continued.

Number.	Drivers, second-class.	Drivers, third-class.	Drivers, fourth-class.	Repairman.	Starters.	Leader bosses.	Loaders.	Stable-men.	Bottom-men.	Door-boys.	Fan-boys.	Wheelmen.	Lampman.	Lampman assistant.	Headman	Helper.	Water-baller.	Car-oller.	Mason.	Mason assistant.	Loaders.	Team-drivers.	Blacksmiths.	Blacksmith helpers.	Machinists.	Coal-pusher.	Switch-boys.
1 A,	\$0 73	..	..	..	..	..	1 A.	..	..	\$0 50	\$0 54	\$1 58	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
1 B,	83	..	..	..	..	..	1 B.	..	..	54	95	1 58	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
1 C,	83	..	..	..	..	..	1 C.	..	..	95	95	1 58	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
1 D,	\$0 83	..	..	..	..	..	1 D.	..	..	50	..	1 58	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
1 E,	73	..	..	..	..	..	1 E.	..	..	63	..	..	\$1 45	\$1 32	..	..	..	..	..	..	..	\$1 69	..	..	..	..	..
1 F,	1 26	1 05	\$1 69	..	..	..	1 F.	..	..	50	50	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
1 G,	73	..	..	..	..	..	1 G.	..	..	50	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
1 H,	73	..	..	..	..	..	1 H.	..	..	50	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
1 I,	73	..	..	..	..	..	1 I.	..	..	49	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
1 J,	81	..	..	..	..	..	1 J.	..	..	55	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
1 K,	97	..	..	..	..	..	1 K.	..	..	65	..	..	..	..	..	..	..	\$0 68	\$1 60	\$1 04	..	..	..	..	..	..	..
1 L,	1 14	1 05	1 47	..	..	..	..	..	..	to	..	..	..	..	..	..	..	..	\$1 98	\$1 69	..	1 47	..	..	..	..	..
1 M,	..	..	..	..	..	..	..	..	..	89	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
2,	1 25	1 17	..	\$1 83	\$1 70	\$1 75	..	\$1 35	\$1 54	75	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
3,	1 52	1 36	..	1 65	..	..	..	to	1 65	61	..	..	..	..	..	..	..	..	..	..	..	\$1 50	..	..	..	..	..
4,	1 70	1 62	1 26	2 00	..	2 00	..	1 93	1 70	83	67	..	..	..	..	..	..	..	..	..	1 70	1 26	..	..	..	..	..
5,	1 71	1 46	1 25	1 67	1 75	1 87	..	1 53	1 62	83	..	..	..	..	..	..	..	..	..	..	1 75	1 25	\$1 83	\$1 17	\$1 92	..	..
6,	1 67	1 50	1 25	1 67	..	..	..	1 67	1 50	96	..	..	..	..	..	..	..	1 42	..	..	..	1 62	1 25	1 83	1 37	1 92	\$1 17
7,	1 50	..	..	2 00	2 03	2 12	..	2 00	1 90	1 00	..	..	..	..	..	..	..	..	..	..	2 25	..	..	..	..	..	..
8,	..	..	..	1 99	1 97	..	..	1 82	1 99	83	..	..	..	..	..	..	..	..	..	..	1 80	..	..	..	..	..	..
9,	1 49	1 39	1 12	1 95	..	..	..	1 95	1 67	to	..	..	..	..	..	..	..	..	..	..	..	1 12	..	..	..	..	..
10,	1 60	1 55	1 00	1 83	1 70	1 83	..	1 50	2 00	83	..	..	..	..	..	..	..	..	..	..	1 60	1 00	..	..	..	..	..
11,	1 43	1 25	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	to	..	..	..	..	..	..
12,	1 45	1 33	1 09	..	..	..	..	1 54	1 69	78	..	..	..	..	..	..	..	..	..	..	1 70	..	..	..	..	..	..
13,	1 10	1 00	..	75	..	..	..	..	..	75	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

Daily Wages—Continued.

[illegible]

ANTHRACITE—Daily Wage of Outside Employees.

NUMBER.	Holting engineer.	Pump engineer.	Breaker engineer.	Plane engineer.	Fan engineer.	Locomotive engineer.	Miller.	Machinists.	Blacksmiths.	Blacksmiths' helpers.	Carpenters.	Barn-boss.	Barn-boss assistant.	Dock-boss.	Weighmasters.	Loaders.	Watchmen.	Teamsters.	Firemen.	Ash-men.
1 A,	\$2 08	.	\$2 08	.	.	\$2 08	.	.	\$2 15	\$1 45	\$2 00	\$1 55	\$0 80	\$1 55	\$1 55	\$1 45	\$1 28	\$1 55	\$1 55	\$1 28
1 B,	2 08	.	2 06	.	.	2 06	.	.	2 15	1 45	2 08	1 55	1 45	1 55	1 55	.	1 40	1 55	{1 07 to 1 55}	.
1 C,	2 25	.	2 06	.	.	.	.	.	2 15	1 45	{1 75 to 2 08}	1 55	.	1 55	1 55	1 45	1 38	1 55	1 55	.
1 D,	2 00	.	2 06	.	.	.	.	.	2 15	1 45	{1 75 to 2 08}	{1 45 to 1 55}	.	1 55	1 55	1 45	1 38	1 55	1 55	.
1 E, . . . . .	.	.	2 00	\$1 55	2 06	2 00	.	\$2 50	{1 80 to 2 50}	1 45	{1 90 to 2 00}	1 55	.	1 55	1 55	1 45	1 40	1 40	1 55	1 45
1 F, . . . . .	.	.	2 06	.	.	.	.	.	.	.	{1 88 to 2 25}	.	.	.	1 55	1 50	1 40	.	{1 55 to 1 45}	{1 32 to 1 45}
1 G,	2 25	2 06	2 06	1 55	1 55	2 06	.	2 00	2 25	1 45	{1 90 to 2 00}	1 55	1 00	1 66	1 55	1 45	1 40	1 55	{1 45 to 1 55}	1 45
1 H,	2 06	.	.	.	1 55	.	.	.	2 15	1 45	{1 90 to 2 00}	1 55	92	1 55	1 55	{1 16 to 1 45}	1 40	1 55	1 55	1 45
1 I,	2 06	2 06	.	.	1 55	.	.	.	2 15	1 45	2 00	1 55	.	1 55	1 55	1 05	1 37	1 55	1 55	1 45
1 J,	2 06	1 55	.	.	1 55	.	.	.	2 15	1 45	2 00	1 55	.	1 55	1 55	1 45	1 40	1 55	1 55	1 45
1 K,	2 50	.	2 03	1 66⅔	1 55	.	.	.	2 15	1 45	{1 78 to 2 08}	1 55	1 45	1 85	1 85	1 45	1 40	1 55	1 55	1 45
1 L,	{2 06 to 2 50}	.	.	.	2 06	.	.	.	2 15	1 45	{1 89 to 2 15}	1 55	1 25	{1 55 to 1 69}	1 45	1 45	1 40	1 55	1 55	1 45
1 M,	2 06⅔	2 06	1 88	1 75	.	2 16⅔	.	1 93	2 15	1 45	{1 93 to 2 15}	1 50	.	1 65	1 55	1 45	1 45	1 55	1 60	1 45
1 N,	2 25	2 06	1 55	.	2 06	.	.	.	2 15	1 45	{1 45 to 2 15}	1 55	1 25	1 55	.	.	1 40	1 05	1 55	1 45
2,	1 75	.	1 67	1 67	1 67	1 67	.	.	1 88	1 25	1 83	1 42	.	.	.	1 21	1 25	1 50	1 46	1 04

Daily Wages—Continued.

NUMBER.	Holisting eng'neer.	Pump engineer.	Breaker engineer.	Plane engineer.	Fan engineer.	Locomotive engineer.	Jigger.	Machinists.	Blacksmiths.	Blacksmiths' helpers.	Carpenters.	Barn-boss.	Barn-boss assistant.	Lock-boss.	Weighmaster.	Loaders.	Watchmen.	Teamsters.	Firemen.	Ash-men.	
3,	\$1 45	\$1 40	\$1 40	\$1 00	\$1 40	\$1 75	\$1 75	\$1 20	\$1 60 { 2 00 to 2 17 }	\$1 30	\$1 10 { 1 12 to 1 33 }	\$1 17	\$1 10	\$1 40	\$1 00
4,	2 00	. . . . .	2 00	2 00	2 00	\$2 00	. . . . .	2 50	2 00	1 58	{ 2 00 to 2 17 }	1 75	\$1 50	\$2 00	. . . . .	. . . . .	1 33	1 42	1 58	1 17
5,	1 92	. . . . .	1 80	1 80	. . . . .	1 80	. . . . .	1 92	2 00	1 33	1 92	1 83	. . . . .	1 92	. . . . .	. . . . .	1 37	1 67	1 58	1 46
6,	1 92	. . . . .	1 71	1 75	. . . . .	1 75	. . . . .	. . . . .	1 96	1 29	1 80 { 1 50 to 2 25 }	1 57	. . . . .	. . . . .	. . . . .	. . . . .	1 37	1 42	1 58	1 29
7,	2 00	2 00	1 50	1 50	. . . . .	. . . . .	. . . . .	2 00	2 25	1 50	{ 1 50 to 2 25 }	. . . . .	. . . . .	. . . . .	. . . . .	1 50	1 50	1 50	1 90	1 50
8,	1 85	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	2 00	1 35	2 00	1 67	. . . . .	. . . . .	. . . . .	1 50	1 33	1 58	1 35	
9,	1 80	1 66	1 00	. . . . .	. . . . .	1 66	. . . . .	1 80	1 89	1 20	1 66	1 40	. . . . .	2 25	. . . . .	1 10	1 10	1 10	1 40	1 10
10,	2 00	1 83	1 83	. . . . .	. . . . .	1 83	. . . . .	2 17	{ 2 50 to 2 80 }	1 77 to 2 00	1 50 to 2 00	1 67	. . . . .	1 50	. . . . .	1 35 to 1 55	1 35	1 33	1 67	1 58
11,	1 80	. . . . .	. . . . .	1 50	1 65	1 65	. . . . .	. . . . .	1 80	1 20	1 67	1 35	. . . . .	2 35	. . . . .	1 10	1 10	1 10	1 40	1 10
12,	2 31	2 05	2 05	2 10	1 88	1 88	. . . . .	2 50	2 20	1 45	2 35	1 67	. . . . .	2 10	. . . . .	1 75	1 35	1 45	1 55	1 45
13, . . . . .	. . . . .	. . . . .	1 80	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	2 00	1 50	{ 1 50 to 1 80 }	1 50	. . . . .	1 50	\$1 75	1 35	1 40	1 50	1 60	
14,	2 00	1 50	1 10	. . . . .	. . . . .	1 92	\$2 00	. . . . .	2 00	1 45	{ 1 50 to 2 50 }	2 10	. . . . .	. . . . .	. . . . .	{ 1 15 to 1 18½ }	1 35	. . . . .	1 33	1 15
15,	1 83	. . . . .	2 00	1 66½	1 50	. . . . .	. . . . .	. . . . .	2 00	. . . . .	{ 1 83 to 2 00 }	1 50	. . . . .	1 50	. . . . .	{ 1 25 to 1 35 }	. . . . .	. . . . .	1 66½	1 35
16,	2 25	2 00	1 60	. . . . .	1 60	1 60	. . . . .	2 08	2 25	1 45	2 08	1 55	. . . . .	1 55	1 55	1 45	1 10	1 45	1 60	
17,	1 83	1 82	1 66	. . . . .	. . . . .	. . . . .	. . . . .	2 90	2 50	1 75	1 95	1 50	. . . . .	1 80	. . . . .	{ 1 25 to 1 70 }	1 33½	1 50	1 58	1 25
18,	2 00	1 89	1 60	. . . . .	1 98	1 98	. . . . .	. . . . .	2 40	1 87	2 14 { 2 00 to 2 25 }	1 87	. . . . .	1 60	. . . . .	1 69	. . . . .	1 60	1 69	1 42
19,	2 10	. . . . .	1 50	. . . . .	1 65	. . . . .	. . . . .	2 25	2 25	1 40	{ 2 00 to 2 25 }	1 75	. . . . .	2 00	. . . . .	{ 1 50 to 1 75 }	1 25	1 50	1 60	
20,	2 33	2 08	2 08	. . . . .	2 08	2 08	1 50	2 67	2 00	1 50	2 00	2 00	. . . . .	1 67	. . . . .	1 33	1 15	1 50	1 58	1 33
21,	1 80	. . . . .	1 80	. . . . .	. . . . .	1 80	. . . . .	. . . . .	2 10	1 67	1 80	2 00	. . . . .	1 50	. . . . .	1 35	1 35	1 45	1 35	1 20

Daily Wages—Continued.

NUMBER.	Foot-men.	Gate-men.	Head-men.	Sprag-men.	Culm-men.	Drivers.	Drivers.	Dumppers.	Dumppers.	Tip-men.	Loaders.	Assistant loaders.	Pickers.	Pickers.	Pickers.	Pickers.	Pickers.	Laborers (first class).	Laborers (second class).	Laborers (third class).	Laborers (fourth class).	Top-men.	Top-drivers.	Lamp-men.
1 A,	\$1 45	\$0 95	{ \$0 53 to 1 45 }	{ \$0 70 to 1 45 }	\$0 70	\$0 77	\$1 45	\$0 91	\$1 00	\$0 53	\$0 50	\$0 45	\$1 45	\$1 28
1 B, . . . . .	. . . . .	. . . . .	{ 1 45 to 1 55 }	. . . . .	1 45	75	65	. . . . .	. . . . .	. . . . .	\$1 45	. . . . .	1 00	53	49	45	1 45	1 28	. . . . .	. . . . .	. . . . .	\$1 28	
1 C, . . . . .	. . . . .	. . . . .	{ 1 40 to 1 45 }	. . . . .	1 45	63	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	1 00	53	50	45	1 45	1 28	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .
1 D, . . . . .	. . . . .	. . . . .	{ 1 28 to 1 45 }	. . . . .	1 45	. . . . .	80	. . . . .	. . . . .	. . . . .	1 45	. . . . .	1 00	53	50	45	1 45	1 28	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .
1 E,	1 45	1 10	{ 1 45 to 1 45 }	\$0 76	1 45	76	76	\$1 45	\$1 45	\$1 45	1 45	. . . . .	1 00	59	52	. . . . .	1 45	1 28	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .
1 F,	70	87	{ 87 to 1 50 }	. . . . .	1 50	70	77	1 50	. . . . .	. . . . .	. . . . .	. . . . .	1 00	58	53	50	1 50	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .
1 G,	1 45	1 20	1 45	. . . . .	1 45	1 01	{ 66 to 90 }	1 45	. . . . .	. . . . .	. . . . .	. . . . .	1 00	91	58	{ 50 to 54 }	1 45	1 32	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .
1 H,	{ 78 to 1 45 }	. . . . .	{ 1 16 to 1 45 }	78	1 45	78	1 45	1 16	. . . . .	. . . . .	. . . . .	. . . . .	1 00	57	. . . . .	. . . . .	1 45	1 28	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .
1 I, . . . . .	. . . . .	. . . . .	1 45	. . . . .	. . . . .	. . . . .	1 45	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	57	57	. . . . .	. . . . .	1 45	1 28	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .
1 J,	1 45	. . . . .	1 45	78	{ 1 00 to 1 45 }	68	. . . . .	1 45	. . . . .	. . . . .	. . . . .	. . . . .	1 00	75	49	. . . . .	1 45	1 28	\$1 00	. . . . .	{ 1 00 to 1 34 }	. . . . .	. . . . .
1 K,	1 34	75	{ 65 to 1 45 }	. . . . .	. . . . .	69	. . . . .	1 45	. . . . .	1 34	. . . . .	. . . . .	1 00	75	49	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .
1 L, . . . . .	. . . . .	. . . . .	{ 1 45 to 1 55 }	. . . . .	. . . . .	69	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	1 00	59	58	43	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .
1 M,	1 45	1 16	1 45	. . . . .	{ 1 07 to 1 45 }	1 16	1 11	1 45	. . . . .	. . . . .	{ 1 28 to 1 45 }	. . . . .	1 00	85	80	{ 60 to 75 }	1 45	1 40	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .

4,	1 25 to 1 42	1 33 to 1 42	1 50 to 1 58	1 33 to 1 42	50 to 1 00	1 29	1 17	1 00 to 1 50	1 25	1 00	1 00	1 25	1 66	1 00	1 00	1 50	1 42	1 46
5,	1 37	1 33	1 42	1 37	50 to 1 00	1 29	1 17	1 00 to 1 50	1 25	1 00	1 00	1 25	1 66	1 00	1 00	1 50	1 42	1 46
6,	1 33	1 33	1 50	1 33	50 to 1 08	1 29	1 17	1 00 to 1 50	1 25	1 00	1 00	1 25	1 66	1 00	1 00	1 50	1 42	1 46
7,	1 50	1 50	1 50	1 50	50 to 1 25	1 29	1 17	1 00 to 1 50	1 25	1 00	1 00	1 25	1 66	1 00	1 00	1 50	1 42	1 46
8,	1 50	1 50	1 50	1 50	85	1 29	1 17	1 00 to 1 50	1 25	1 00	1 00	1 25	1 66	1 00	1 00	1 50	1 42	1 46
9,	1 25	1 10	1 35	1 10	85	1 29	1 17	1 00 to 1 50	1 25	1 00	1 00	1 25	1 66	1 00	1 00	1 50	1 42	1 46
10,	1 35	1 50	1 50	1 50	85	1 29	1 17	1 00 to 1 50	1 25	1 00	1 00	1 25	1 66	1 00	1 00	1 50	1 42	1 46
11,	1 10	1 10	1 30	1 10	40 to 90	1 29	1 17	1 00 to 1 50	1 25	1 00	1 00	1 25	1 66	1 00	1 00	1 50	1 42	1 46
12,	1 25	1 25	1 65	1 25	40 to 90	1 29	1 17	1 00 to 1 50	1 25	1 00	1 00	1 25	1 66	1 00	1 00	1 50	1 42	1 46
13,	1 75	1 75	1 75	1 75	85	1 29	1 17	1 00 to 1 50	1 25	1 00	1 00	1 25	1 66	1 00	1 00	1 50	1 42	1 46
14,	1 18	1 18	1 60	1 18	85	1 29	1 17	1 00 to 1 50	1 25	1 00	1 00	1 25	1 66	1 00	1 00	1 50	1 42	1 46
15,	1 35	1 33 to 1 50	1 50 to 1 66	1 35	50 to 53	1 29	1 17	1 00 to 1 50	1 25	1 00	1 00	1 25	1 66	1 00	1 00	1 50	1 42	1 46
16,	1 45	1 45	1 55	1 45	40 to 1 00	1 29	1 17	1 00 to 1 50	1 25	1 00	1 00	1 25	1 66	1 00	1 00	1 50	1 42	1 46
17,	1 60	1 60	1 60	1 60	87	1 29	1 17	1 00 to 1 50	1 25	1 00	1 00	1 25	1 66	1 00	1 00	1 50	1 42	1 46
18,	1 40	1 40	1 50	1 40	45 to 90	1 29	1 17	1 00 to 1 50	1 25	1 00	1 00	1 25	1 66	1 00	1 00	1 50	1 42	1 46
19,	1 67	1 33	1 50	1 33	45 to 90	1 29	1 17	1 00 to 1 50	1 25	1 00	1 00	1 25	1 66	1 00	1 00	1 50	1 42	1 46
20,	1 67	1 33	1 50	1 33	45 to 90	1 29	1 17	1 00 to 1 50	1 25	1 00	1 00	1 25	1 66	1 00	1 00	1 50	1 42	1 46
21,	1 67	1 33	1 50	1 33	45 to 90	1 29	1 17	1 00 to 1 50	1 25	1 00	1 00	1 25	1 66	1 00	1 00	1 50	1 42	1 46
22,	1 67	1 33	1 50	1 33	45 to 90	1 29	1 17	1 00 to 1 50	1 25	1 00	1 00	1 25	1 66	1 00	1 00	1 50	1 42	1 46
23,	1 50	1 50	1 85	1 50	50 to 33	1 29	1 17	1 00 to 1 50	1 25	1 00	1 00	1 25	1 66	1 00	1 00	1 50	1 42	1 46
24,	1 21	1 03	1 33	1 03	84	1 29	1 17	1 00 to 1 50	1 25	1 00	1 00	1 25	1 66	1 00	1 00	1 50	1 42	1 46
25,	1 26	1 00	1 25	1 00	30 to 95	1 29	1 17	1 00 to 1 50	1 25	1 00	1 00	1 25	1 66	1 00	1 00	1 50	1 42	1 46
26,	1 35	1 15	1 35	1 15	95	1 29	1 17	1 00 to 1 50	1 25	1 00	1 00	1 25	1 66	1 00	1 00	1 50	1 42	1 46
27,	1 35	1 15	1 35	1 15	95	1 29	1 17	1 00 to 1 50	1 25	1 00	1 00	1 25	1 66	1 00	1 00	1 50	1 42	1 46
28,	1 50	1 17 to 1 50	1 50	1 17	95	1 29	1 17	1 00 to 1 50	1 25	1 00	1 00	1 25	1 66	1 00	1 00	1 50	1 42	1 46

BITUMINOUS.—Daily Wage of all Inside Employees Except Contract Miners.

NUMBER.	Pay or company miners.	Company laborers.	Miners' laborers.	Engineers.	Engineers.	Carpenters.	Carpenters.	Carpenters.	Fire-boss.	Assistant fire-boss.	Timber-men.	Brattice-men.	Prop-men.	Culm-men.	Pump-men.	Fan-men.	Track-layers.	Track-layers' helpers.	Runners.
18,	\$2 15	\$2 00		\$2 25					\$2 15		\$2 15						\$2 15		
328		{ 1 50 to 2 00 }		{ 2 00 to 2 12 }			{ \$2 00 to 2 25 }										{ 2 00 to 2 12 }		
6,		1 50	\$1 50	1 50											\$1 50		1 75		
144,				2 00			2 00										1 75		
173,	1 40	1 65		2 00													1 65		
138,	1 40	1 65		2 00													2 00		
423,		2 00															1 65		
138,	1 4	1 65		2 00													1 65		
373,		1 60		2 55									\$1 40			\$2 00	1 62½	\$1 50	
192,	2 00	1 40															2 25	1 75	
379,		2 25															1 75		
278,		1 75					2 50								1 50		1 94½	1 50	
73,																	1 75		
198,		1 50															1 65		
137,																	1 95		
407,	1 90																1 85		
427,	1 90																1 95		
428,	1 90																1 60	1 50	
156,	1 60	1 60	1 60				1 60								1 35		1 90		
181,	2 20	1 45	*60 00				2 00				2 20	\$1 90			1 40		2 25	2 00	\$2 25
397,	2 00	1 75					2 10								2 00		2 00	2 00	
114,		1 60		\$1 25			2 00		2 25	\$2 25			1 89	\$1 89	1 00		2 00	1 50	
273,		1 89					2 00		1 85		1 89				1 70		1 75	1 50	
195,	1 75														1 65				
170,																	1 70		
169,															1 30		2 00		
412,		2 00													1 50		2 00		
465,															1 50		1 60		
86,									1 60						1 50		1 75		
189,															1 50				

* Per month.

Daily Wages—Continued.

NUMBER.	Day or company miners.	Company laborers.	Miners' laborers.	Engineers.	Engineers.	Carpenters.	Carpenters.	Carpenters.	Fire-boss.	Assistant fire-boss.	Timber-men.	Brattice-men.	Prop-men.	Culm-men.	Pump-men.	Fan-men.	Track-layers.	Track-layers' helpers.	Runners.
317,	\$2 25	\$1 75	\$1 50	\$2 00	\$2 00	\$2 25			\$2 50								\$2 00		
209,	2 50	1 75															2 25		
430,																	1 85	\$1 85	\$1 00
262,		1 85	1 85														1 90	1 55	
308,				2 15													1 75		
301,	2 00	1 30		1 66 $\frac{2}{3}$													2 00	1 90	
136,									2 50										
323,																			
204,		1 25	1 50																
339,		1 78		1 78		2 00	2 00												
261,						1 95	\$1 67		2 00	\$2 00	\$1 78								
208,		1 45		3 00		1 80											2 00	64	
182,	2 50								1 95								2 00	1 75	
223,		2 25							3 00								1 85	1 45	
63,		2 25							1 75								1 68		
230,	2 00	1 37	1 50	2 50		2 00	1 75		3 00								2 50	2 08	
431,	2 00	1 50							2 50								1 98	1 50	
151,		1 55															2 00	1 50	
167,													1 30				1 85	1 40	
360,																	1 85	1 40	
376,	2 00			2 00		2 00			2 50								2 50	2 35	
312,		1 50				2 00			2 25	2 00							2 00	1 85	
374,	2 00	1 85				2 25					2 00	1 50					1 75		
344,									2 25		2 25						2 00		
343,	2 00	1 95		2 00		1 95			2 00		2 25						2 00		
8,		2 35		2 45					2 35								1 95	8 60	

Daily Wages—Continued.

NUMBER.	Plane-runners.	Driver-boss.	Driver (first class).	Driver (second class).	Driver (third class).	Driver (fourth class).	Repair-men.	Loader-bosses.	Loaders.	Stable-men.	Bottom-men.	Door and fan-boys.	Brattice-boys.	Furnace-boys.	Rock-men.	Shaft-sinkers.	Dilly-riders.	Water-haulers.	Greaser-boys.	Mine-boss.	Ventilating furnace-men.
18,	..	\$2 40	\$2 30	..	..	..	\$2 15	..	..	..	..	\$0 75	..	..	..	..	..	..	..	..	..
328,	$\left. \begin{smallmatrix} 2\ 00 \\ 2\ 00 \\ 1\ 0 \end{smallmatrix} \right\}$	..	..	..	..	..	..	..	..	79	..	..	..	..	..	..	..	..	..
6,	..	2 50	2 12	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
144,	..	1 65	1 65	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
173,	..	2 00	\$1 10	..	..	..	..	..	..	..	..	50	..	..	..	..	..	..	..	..	..
138,	..	2 00	1 65	..	..	..	..	..	..	..	..	50	..	..	..	..	..	..	..	..	..
423,	\$1 50	..	55	..	..	..	..	..	..	..	..	..
138,	..	2 00	1 65	1 10	..	..	..	..	..	..	..	50	..	..	..	..	..	..	..	..	..
373,	..	2 10	1 85	..	..	..	..	..	..	..	..	$\left. \begin{smallmatrix} 55 \\ 60 \\ 85 \end{smallmatrix} \right\}$	..	..	..	..	..	..	..	..	..
192,	..	2 15	1 75	1 65	\$1 55	\$1 10	2 15	..	..	..	..	..	..	..	..	..	..	..	..	..	..
379,	..	2 75	2 50	..	..	..	..	..	..	2 00	..	50	..	..	..	..	..	..	..	\$2 50	..
278,	..	2 25	2 00	1 80	..	..	..	..	..	..	..	70	..	..	..	..	..	..	..	..	..
73,	1 94½	1 25	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
198,	*1 25	1 00	..	..	1 65	..	..	..	..	..	..	..	..	..	..	..	..	..	..
137,	1 75	1 65	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
407,	1 80	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
429,	..	1 95	1 80	1 25	..	..	..	..	..	..	..	60	..	..	..	..	..	..	..	\$1 50	..
408,	..	1 95	1 80	1 25	..	..	..	..	..	..	..	55	..	..	..	..	..	..	..	1 20	..
156,	1 60	..	..	..	..	..	..	50	..	..	..	..	..	..	..	..	..	..	..
181,	..	2 00	1 65	1 00	..	..	..	..	\$1 60	..	..	60	..	..	..	..	..	..	..	..	..
397,	..	2 25	2 00	..	..	..	..	..	..	..	..	75	..	..	..	..	..	..	..	..	..
114,	..	2 50	2 00	1 60	..	..	\$2 25	2 00	..	..	\$1 75	70	..	..	..	..	..	..	..	..	..
238,	1 89	..	..	..	..	..	..	1 50	1 87	..	..	..	..	..	..	..	..	..	..
195,	..	2 00	1 85	1 75	..	..	1 75	..	..	..	..	65	..	\$1 50	..	..	..	..	..	..	..
170,	..	1 75	1 55	..	..	..	1 65	..	..	..	..	50	..	..	..	..	..	..	..	..	..
169,	1 70	..	..	..	..	..	..	..	..	50	..	..	..	..	..	..	..	..	..
412,	1 80	..	..	..	..	..	..	..	..	1 00	..	..	..	..	..	..	..	..	..
4 ½,	2 00	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

* Boys.

BITUMINOUS—Daily Wage of Outside Employees.

NUMBER.	Holisting engineer.	Pump engineer.	Plane engineer.	Fan and locomotive engi- neers.	Machinists.	Blacksmiths.	Blacksmiths' helper.	Carpenters.	Barn-boss.	Weighmaster.	Watchmen.	Teamsters.	Firemen.	Ash-men.	Drivers.	Drivers, second class.	Dummers.	Dummers, second class.	Tip-men.	Loaders.	Pickers.	Laborers, first class.
308,	\$2 15	\$1 40				\$2 25		\$2 00		\$1 75	\$1 40	\$1 75			\$2 00	\$1 00			\$1 30	\$1 30		\$1 50
321,	1 92	1 40				1 50	\$1 75		\$1 50	1 50		1 30					\$1 30		1 30	1 30		
136,	2 25					2 25		1 75		2 00		1 75					1 65			1 65		
323,	1 50	1 18				1 33				1 50	1 33						1 25					
204,			\$1 35			1 85		2 00	2 00	1 65												1 50
339,						2 75		2 00	2 00													
241,	1 78	1 78			\$3 00	1 94		1 95	2 00	2 00			\$1 40				1 49					1 27
261,	2 08	1 75				2 75	1 25	2 50	1 75				\$1 78	1 40								1 50
208,						{1 81 to 2 50}	1 69	1 80	1 66	2 50	1 50	1 44	1 66	1 45	1 25		1 45			1 45	{86 to 1 45}	1 45
182,						1 85	1 55	1 75	1 33	1 54			1 50				1 40			2 50		2 50
223,	1 80	1 00			1 75	2 50		2 00		2 00			1 33				1 37	1 37		2 50		2 50
63,	2 50			2 47		1 98		2 00	2 00	2 00							1 50			1 25		1 37
299,						2 00		2 00	2 00	2 00					1 00		1 25			1 25		1 50
431,						1 75	1 40		50	2 00					1 40		1 45	1 40		1 50		1 35
151,			1 85			2 25	1 50	1 50	1 30								2 00		2 00			1 62
157,	2 37½			2 00		2 54				2 75		1 90										
369,								2 25	1 50	2 00	1 50	1 50					2 00			1 65		
376,	2 00	1 50				1 75	1 25	2 25	1 50	2 00	1 50	1 50			1 59		1 40			1 55		1 40
312,						2 10	1 75	2 25	1 50	2 00	1 50	1 50					1 65		1 65			1 50
374,	2 00					2 00	1 65	1 85	50	2 25												
344,	2 25	1 95		2 25	2 25	2 00	1 50	1 95	1 66	2 00	2 25		*60		2 37½		2 25			1 50		
343,	2 25					2 25			2 00	2 15		2 00										2 00
8,						2 00		{2 00 to 2 12}		2 00	2 25						{1 50 to 1 60}					
18,						2 12		2 12		2 12		{1 50 to 1 75}										
328,						2 00																
144,						2 00		2 00		1 50							1 35				{1 35 to 1 25}	
173,		1 50		1 50		2 09		2 00	1 35	2 00							1 25					

*Boy.

Daily Wages—Continued.

NUMBER.	Holisting engineer.	Pump engineer.	Plane engineer.	Fan and locomotive engi- neers.	Machinists.	Blacksmiths.	Blacksmiths' helper.	Carpenters.	Barn-boss.	Weighmaster.	Watchmen.	Teamsters.	Firemen.	Ash-men.	Drivers.	Drivers, second class.	Dumppers.	Dumppers, second class.	Tip-men.	Loaders.	Pickers.	Laborers, first class.
138,	...	\$1 50	...	\$1 50	...	\$2 00	...	\$2 00	\$1 35	\$2 00	...	...	...	...	...	...	\$1 25	...	...	...	\$0 80 to 1 25	...
187,	...	...	...	2 20	...	1 92	\$1 45	1 67	1 60	...	\$1 50	\$1 50	\$1 45	...	...	...	1 42	\$1 35	...	\$1 35	...	\$1 40
331,	...	...	...	...	...	2 40	1 25	1 90	1 33	2 00	...	...	...	...	...	...	...	1 50	...	1 50	...	1 50
113,	...	...	...	...	...	2 10	...	...	...	...	...	...	1 10	...	...	...	1 60	1 50	...	1 50	...	1 10
286,	\$1 35	1 35	...	2 00	...	1 75	...	...	...	1 75	...	1 65	...	...	\$1 50	...	1 50	1 10	...	1 65	...	1 10
263,	...	...	...	...	...	...	...	...	...	2 50	...	...	...	...	1 65	...	1 50	...	...	1 75	...	1 75
18,	2 00	...	...	...	...	2 50	...	...	...	2 50	...	...	...	...	...	...	1 75	...	...	1 75	...	1 75
54,	2 00	...	...	...	...	2 50	1 75	2 00	2 00	1 75	2 00	1 50	...	...	...	...	1 75	...	...	1 75	...	1 75
134,	2 25	2 00	...	...	\$2 50	2 50	1 75	2 00	2 00	2 25	2 00	1 50	1 67	...	...	...	1 10	...	\$1 40	1 75	...	...
222,	...	...	...	...	...	2 00	...	...	...	1 60	...	...	...	...	...	...	1 35	...	...	1 35	...	...
168,	1 83	1 33	...	...	...	1 75	...	...	...	1 35	...	...	...	...	...	...	1 60	...	...	1 35	...	...
222,	...	1 50	...	...	...	2 00	1 40	...	2 25	1 60	...	1 50	...	...	...	...	1 35	...	...	1 50	...	1 50
414,	...	...	...	...	...	2 00	...	...	...	2 00	...	...	...	...	...	...	...	...	...	1 50	...	...
179,	...	...	...	...	...	2 00	...	...	...	1 50	...	...	...	...	...	...	...	...	...	1 75	...	...
403,	1 75	1 75	\$1 75	1 75	2 25	2 25	1 75	1 75	1 75	2 25	...	1 50	1 50	...	1 50	...	1 50	...	1 50	1 75	...	...
113,	...	...	...	...	...	2 05	1 50	2 00	1 65	2 15	...	1 65	2 60	...	...	...	...	1 50	1 80	1 65	...	1 90
113,	...	3 17	...	...	...	2 10	1 50	2 20	1 33	2 25	...	...	1 90	...	...	...	...	1 50	1 90	1 80	...	2 15
228,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1 65	...	...	...	...	...
197,	2 15	2 00	...	2 15	2 15	1 85	1 40	1 75	1 65	1 75	1 50	1 45	1 50	...	...	...	2 00	1 20	...	1 35	...	1 25
27,	...	2 25	2 25	1 85	...	2 25	1 50	1 75	2 00	2 25	1 50	...	...	\$1 27	2 50	2 25	2 00	...	...	2 00	...	...
104,	2 25	1 85	2 25	...	3 00	2 75	...	1 75	...	2 25	...	1 50	...	...	...	...	1 60	...	...	...	...	...
324,	...	...	...	...	...	2 25	...	2 25	...	2 25	...	...	1 80	...	...	...	2 25	1 50	2 25	2 50	...	2 25
113,	2 66	1 75	...	...	...	2 10	1 50	1 90	1 40	1 40	...	1 50	...	...	...	...	1 60	1 50	1 65	1 55	...	1 40
100,	2 50	...	...	...	...	2 25	1 10	2 00	1 40	2 00	...	...	...	...	...	...	1 75	...	...	...	...	...
405,	2 00	...	...	...	...	2 25	...	...	1 75	2 00	...	...	...	...	...	...	...	...	...	...	...	...
31,	1 75	...	...	...	...	1 50	...	...	1 60	1 50	...	1 35	...	...	1 50	...	1 15	...	...	1 25	...	1 50
139,	...	...	...	...	...	2 10	...	...	...	1 50	...	...	...	...	2 00	...	...	...	...	2 00	...	2 00
317,	...	...	...	...	...	2 25	...	2 25	...	2 00	...	...	...	...	...	...	...	...	...	2 00	...	...
430,	...	...	...	3 00	...	2 50	2 00	...	1 94	2 00	...	2 00	...	...	...	...	1 75	...	...	1 75	...	2 00
262,	...	...	...	...	...	2 10	1 75	1 85	2 00	2 25	...	1 50	...	...	...	...	...	...	...	...	...	1 74
423,	...	...	...	...	...	2 00	...	...	...	2 00	...	...	...	...	2 00	...	...	...	...	...	...	...

BLAST FURNACES.

NUMBER.	Foremen.	Keeper.	Keepers' helper.	Top fillers.	Bottom fillers.	Cinder-men.	Iron-lifters.	Hot-blast stove-men.	Machinists.	Machinists' helpers.	Blacksmiths.	Blacksmiths' helpers.	Engineers.	Carpenters.	Weighers.	Labor boss.	Laborers.
106,	\$3 00	\$1 75	\$1 40	\$1 75	\$1 50	\$1 50	\$1 50	\$1 50	\$3 25	\$2 00	\$1 75	\$1 10	\$1 75	\$1 75	\$2 50	\$1 50	\$1 10
172,	3 50	1 75	1 50	1 50	1 50	1 50	2 00	\$1 50	..	..	2 75	1 25	2 50	2 25	..	2 25	1 25
215,	5 00	1 55	1 25	1 25	1 25	1 25	..	..	..	..	1 50	..	1 55	1 15	1 30	..	1 10
245,	2 00	1 65	1 48	1 48	1 37	1 37	..	1 37	..	..	..	..	1 70	..	..	..	1 10
41,	2 50	1 75	1 30	1 60	1 18 to 1 30	1 30	..	..	..	..	..	..	1 72 to 2 35	..	..	..	1 10
165,	4 11	1 70	1 45	1 35 to 1 60	1 40	..	..	1 70	2 20	..	1 75 to 1 90	1 20	2 50	2 00	..	1 32	..
229,	1 66½	1 34	1 23	1 23	1 23	1 23	1 23	1 30	..	..	1 40	1 10	1 37½	1 65	..	1 65	1 00
224,	2 50	1 65	1 30	1 54	1 30	1 30	..	1 30	..	..	1 65	1 20	1 65	2 00	1 85	..	1 10
276,	2 50	2 25	1 80	1 85	1 65	1 50	1 60	1 50	1 60	1 20	2 50	1 15	1 70	1 28	1 55	2 00	1 35
204,	1 90	1 80	1 52½	1 55	1 50	1 50	..	..	..	..	1 25	1 10 to 1 70	1 75	1 28	1 55	..	1 20
235,	2 50	1 50	1 30	1 20	1 20	1 30	1 30	..	..	..	2 00	1 10 to 1 70	1 50	1 70	..	..	1 00
302,	2 66	1 26	1 09	1 26	1 26	..	..	..	3 50	..	1 25	1 35	1 50	1 90	2 00	1 40	1 00
256,	2 25	1 90	1 65	1 65	1 65	1 35	2 50	1 65	2 50	1 50	2 50	1 35	2 45	..	..	2 00	1 35
278,	5 00	2 00	1 60	1 85	1 60	1 60	..	1 60	..	..	2 30	1 60	2 00 to 3 00	2 50	..	2 00	1 25
283,	2 50	1 85	1 42	1 65	1 15 to 1 42	1 65	1 75	..	1 75	..	1 80	..	1 70	1 75	..	..	1 10
292,	1 68½	1 50	1 25	1 25	1 25	1 25	2 55	1 20	2 55	1 00	1 55 to 2 55	..	1 80	1 50 to 1 65	..	1 90	1 00
277,	3 80	1 70	1 50	1 30	1 20	1 20	2 00	1 60	2 00	2 00	1 75	1 25	1 70	2 00	1 35	2 50	1 20
261,	2 75 to 4 00	2 25	1 75	2 00	1 75	1 49 to 1 45	..	1 75	..	..	2 00	1 35	2 00	2 00	2 25	1 45	1 35

[illegible]

BLAST FURNACES—Continued.

NUMBER.	Foremen.	Keeper.	Keepers' helpers.	Top flilers.	Bottom flilers.	Cinder-men.	Iron-lifters.	Hot-blast stove-men.	Machinists.	Machinists' helpers.	Blacksmiths.	Blacksmiths' helpers.	Engineers.	Carpenters.	Weghers.	Labor-boss.	Laborers.
214,	2 00	1 45	1 30	1 15	1 15	1 15	. . . . .	. . . . .	. . . . .	. . . . .	1 50	. . . . .	1 40	1 73	. . . . .	. . . . .	1 00
263,	2 50 to { 3 00 }	2 30	1 75 to { 1 90 }	2 10	1 40 to { 1 70 }	1 75	. . . . .	1 75	. . . . .	. . . . .	2 50	1 60	2 25 to { 3 25 }	2 50	1 75	2 00	1 30
269,	5 00	2 00 to { 2 20 }	1 75 to { 1 85 }	2 20	1 65 to { 2 63 }	2 05	2 20	2 05	1 40	1 40	2 40	1 50	2 05	1 75 to { 2 00 }	1 85	1 90	1 25
205,	5 00	1 75 to { 1 90 }	1 50 to { 1 65 }	1 50 to { 1 65 }	1 50 to { 1 65 }	1 50 to { 1 65 }	. . . . .	1 50	. . . . .	. . . . .	2 25 to { 2 40 }	1 25 to { 1 35 }	2 00 to { 2 75 }	1 50	1 25 to { 1 35 }	2 00	1 25 to { 1 35 }
250,	3 33 ¹ / ₂	1 60	1 30	1 20	1 20	1 20	. . . . .	. . . . .	. . . . .	. . . . .	2 00	1 00	1 50 to { 1 60 }	2 00	. . . . .	1 20	1 00
232,	2 33	1 70	1 50	1 40 to { 1 50 }	1 40	1 40	. . . . .	. . . . .	. . . . .	. . . . .	1 65	1 25	1 65	1 80	3 00	. . . . .	1 05
16,	6 00	1 90	1 65	1 55	1 50	1 55	2 25	1 65	1 50	1 50	2 25	1 30	2 00	2 25	1 55	3 00	1 25
220,	2 00	1 62	1 35	1 50	1 35	1 44	. . . . .	1 50	. . . . .	. . . . .	1 58	1 12 ¹ / ₂	1 44	2 50	1 35	. . . . .	1 12 ¹ / ₂
223,	1 50	1 45	1 20	1 45	1 25	1 20	. . . . .	1 25	. . . . .	. . . . .	1 40	1 20	1 45 to { 1 85 }	2 00	1 50	1 25	1 00
35,	1 94	1 62	1 28 to { 1 35 }	1 49	1 35	1 28	. . . . .	. . . . .	. . . . .	. . . . .	1 40	1 13	1 53	. . . . .	1 44	. . . . .	1 13
267,	1 80 to { 2 25 }	2 35	1 95	2 00	1 75	1 85	. . . . .	. . . . .	. . . . .	. . . . .	2 00	1 35	2 45	. . . . .	. . . . .	. . . . .	1 35
193,	3 00	1 60	1 50	1 40	1 40	1 40	2 00 to { 2 40 }	1 60	1 50	1 50	1 80	1 25	1 50	2 00	. . . . .	1 60	1 10 to { 1 15 }
222,	2 25 to { 3 00 }	1 42	1 25	1 25	1 25	1 25	. . . . .	. . . . .	. . . . .	. . . . .	1 75	. . . . .	1 50	2 00	. . . . .	. . . . .	1 10
266,	6 85	2 25 to { 3 00 }	1 75	1 90	1 70	1 45	2 50	1 70	. . . . .	. . . . .	2 50	2 50	2 00 to { 2 50 }	2 00 to { 2 35 }	1 70	2 25	1 25

[illegible]

Puddle Mill Department—Continued.

NUMBER.	Pile-heater.	Pile-heater's helper.	Knobblers.	Muck-weigher.	Ore-grinder.	Fix-wheeler.	Cinder-wheeler.	Cinder-boys.	Shear-men.	Shear-men's helpers.	Iron-stockers.	Coal and ore-stockers.	Squeezer-boys.	Squeezer men.	Blacksmiths.	Laborers.
149,	.	.	.	\$2 00	\$2 10	\$1 75	\$1 70	{ \$1 00 to 1 50 }	.	.	.	.	.	.	.	.
30,
29,
143,	\$7 00	\$2 40	.	.	.	.	.	.	.	.	.	.	.	.	.	.
163,	.	.	\$5 40	2 00	.	.	.	.	.	.	.	.	.	.	.	.
80,
51,
52,
31,
7,
32,
107,	.	.	.	2 10	.	.	.	.	\$2 25	\$2 00	.	.	.	.	.	.
61,
62,
106,
70,
46,	\$2 20	\$1 90	\$1 15	\$1 70	{ \$1 30 to 1 45 }	.	.
76,	3 05	.	2 35	1 00	{ 1 45 to 1 50 }	.	.
96,	.	.	.	2 30	.	.	.	.	.	1 25	1 00	37	1 00	.	.	1 00
137,	{ 2 00 to 4 00 }	.	.	.	.	.	.	{ 1 35 to 1 50 }
46,
91,
154,	1 50	1 65	1 50	{ 90 to 1 10 }	.	1 60	.	.	.	.	2 75	.
11,	.	.	.	1 50	.	.	1 15	.	.	.	1 15	.	.	.	.	1 15
13,
116,	2 00	.	.	.	3 50	.	.	.	.	.	2 75	1 25

IRON AND STEEL WORKS—General Labor.

NUMBR.	No. of days in operation.	I oss roll-turners.	Roll-turners.	Boss furnace-builder.	Furnace-builder.	Boss millwrights.	Millwrights.	Head engineers.	Engine drivers.	Locomotive engineers.	Locomotive firemen.	Locomotive brakemen.	Cinder-wheelers.	Ore-wheelers.	Ore-grinders.	Tap-wheelers.	Metal-stockers.	Metal-helpers.	Machinists.	Blacksmiths.	Blacksmiths' helpers.	Boiler-makers.	Car-builders.
107,	833	\$8 00	\$3 00	\$0 00	\$3 50	\$4 50	\$2 75	\$4 50	\$2 75	\$3 00	\$2 40	\$2 60	\$1 50	\$1 60	\$1 40	\$1 60	\$2 25	\$1 60	\$2 75	\$2 62½	\$1 80	\$2 50	\$2 25
55,	290	. . .	. . .	. . .	. . .	. . .	. . .	. . .	2 65	. . .	1 60	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	2 65	1 55	. . .	. . .
11,	300	. . .	2 50	3 50	(2 37 to 2 62)	. . .	. . .	. . .	. . .	2 54	. . .	1 85	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .
16,	300	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	2 25	. . .	. . .	. . .	. . .

General Labor—Continued.

NUMBER.	Oliver-men.	Press-men.	Hinge-makers.	Bolt-makers.	Pointers.	Screw-hands (females).	Nut-tappers (females).	Nut-makers.	Nut-trimmers (boys).	Packers.	Firemen.	Forge-hammerman.	Pick and mattock men.	Labors.	Watchmen.	Labor-boss	Teamsters.	Stable-boss.	Boss-machinist.	Annealers.
107,	\$2 80	\$1 45	\$1 50	\$2 25	\$1 70	\$1 35	\$1 10	\$2 50	\$0 75	\$1 40	\$3 50	\$2 00	\$2 60	\$1 37½	\$1 53	\$1 50	. . .	. . .	. . .	. . .
55, . . . . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	{ 3 05 to 3 50 }	. . .	. . .	1 20	. . .	. . .	{ \$1 30 to 1 45 }	. . .	. . .	. . .
11, . . . . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	{ 1 10 to 1 25 }	. . .	1 75	. . .	\$2 95	. . .	. . .
16, . . . . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	1 30	. . .	\$5 00	\$2 00

STEEL-WORKS—Bessemer Department.

NUMBER.	Number of days in operation.	Foremen of turns.		Blowers.		First vessel-man.		Second vessel-man.		Third vessel-man.		First pit-man.		Second pit-man.		First ladle man.		Second ladle-man.		Regulators.		Cupola slag-men.		Vessel slag men.		Iron stockers.		Vessel scrapers.		Cupola chargers.		Stock weighers.		Stopper makers.		Scrap loaders.		Brick-layers.		Machinists.		Machinists' helpers.		Blacksmiths.	
		\$	c	\$	c	\$	c	\$	c	\$	c	\$	c	\$	c	\$	c	\$	c	\$	c	\$	c	\$	c	\$	c	\$	c	\$	c	\$	c	\$	c	\$	c	\$	c	\$	c	\$	c	\$	c
107,	245	3	00	3	85	2	50	1	75	1	50	2	00	1	75	2	00	1	62½	1	00	1	75	1	75	1	75	1	37½	1	50	3	15	2	52½	1	37½	3	50	3	85	2	00	3	00
126,	252	6	00	3	29	4	49	3	00	3	47	3	47	3	35	2	78	2	07	2	19	3	15½	3	15	2	52½	3	13	1	65	3	30	3	30	3	50		
94,	264	4	97	2	91	4	83	4	06	3	06	3	95	3	57	3	23	2	11	2	60	2	11	2	30	2	49	2	49	2	49	2	60	1	38	2	14	2	80	1	56	1	95		

STEEL WORKS—Clapp-Griffith Department—Continued.

NUMBER.	Sorap loaders.	Bricklayers.	Machinists.	Machinists' helpers.	Blacksmiths.	Blacksmiths' helpers.	Cupola tappers.	Ladle tappers.	Pit helpers.	Ladle lifts.	Iron trucks.	Ingot weigher.	Fan engineers.	Blowing engineers.	Boltum makers.	Crane-boys.
200,	\$1 38	\$4 00	\$2 75	\$1 50	\$2 25	\$1 65	\$2 25	\$2 25	\$1 90	\$1 25	\$1 35	\$1 80	\$2 25	\$2 25	\$2 00	\$0 78

STEEL WORKS—Hammer Department.

NUMBER.	Number of days in operation.	Hammer-man.	Hatters.	Levermen.	Tongs-men.	Firemen.	Hammer-drivers.	Beggy-men.	Door-boy.	Roller-boy.	Foremen.	Blacksmiths.	Blacksmiths' helpers.	Laborers.	Cut offs.	Teamsters	Shingler.	Steel-melter.	Engineer.	Watchmen.	Melters' helpers.
178,	313	\$5 00	\$4 00	\$3 00	\$2 50	\$2 00	\$2 25	\$1 75	40 90	..	..	..	..	..	..	..	..	..	..	..	..
150,	50	3 25	3 00	..	1 65	1 65	1 30	..	60	..	\$3 00	\$2 75	\$1 50	\$1 35	\$1 75	<div style="display: flex; align-items: center;"> <div style="margin-right: 5px;">\$1 25</div> <div style="font-size: 2em;">}</div> <div style="margin-left: 5px;">1 50</div> </div>	..	..	..	..	..
156,	222	15 00	3 00	..	..	..	2 50	2 00	1 25	..	..	..	..	..	..	..	..	..	\$2 25	\$1 50	..
157,	250	6 00	3 25	..	..	..	1 25	1 50	75	50	..	..	..	1 50	..	..	..	..	..	..	..
175,	300	4 00	..	..	..	..	1 80	..	..	..	..	1 75	..	..	..	..	..	..	..	..	..
6,	310	3 20	3 20	1 25	1 99	1 90	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
136,	..	4 00	3 25	..	1 60	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
176,	300	5 00	2 50	2 50	2 50	2 00	2 00	2 00	90	..	..	3 00	1 50	1 50	..	..	..	\$5 00	2 50	..	\$3 00
94,	276	5 22	2 85	1 87	1 82	1 68	1 65	1 50	90	90	..	..	..	1 50	..	..	..	..	..	..	..

STEEL WORKS—Open Hearth Furnace Department

NUMBER.	No. of days in operation	First melters.	Second melters.	First helpers.	Second helpers.	Pitmen.	Ladlemen.	Sandmen.	Door-boys.	Stage-boys.	First stockers.	Gasmen.	Ashmen.	Pit boss.	Laborers.	Moulders.	(Core makers.	Crane drivers.	Ass't gasman.	Engineer.
190,	281	\$4 00	.	\$2 34	\$2 21	{ \$1 35 1 35 to }	\$2 25	\$1 35	.	.	\$2 00	\$2 21	\$1 35	\$2 10	\$1 25	.	.	.	.	.
166,	230	5 00	.	\$2 35	1 50	{ 1 45 2 25 to }	2 00	.	.	.	1 60	.	.	.	.	.	.	.	.	.
173,	313	6 00	\$3 25	2 25	.	2 25	2 50	.	\$0 90	.	.	2 50	.	.	1 45	{ \$2 50 to 2 75 }	\$2 50	\$2 00	.	.
174,	300	5 00	.	2 25	.	1 40	2 10	1 40	1 25	.	1 60	.	.	.	.	.	.	.	.	.
6,	310	5 37	5 00	3 00	2 00	2 00	2 50	2 00	.	.	1 75	2 25	.	.	.	.	.	.	.	\$1 68
13,	275	6 00	.	3 50	2 20	1 75	.	.	.	1 35	1 60	.	.	2 25	1 35	.	.	.	.	.
129,	300	.	3 50	2 50	2 00	1 80	2 00	1 60	1 00	.	1 65	.	.	.	.	.	.	.	.	{ \$2 25 to 2 50 }
145,	.	*325 00	5 00	2 50	2 50	2 50	3 50	1 38	75	75	1 75	.	.	.	.	.	.	.	.	.
126,	232	6 00	3 35	2 25	2 25	2 31	2 31	.	69	2 10	2 10	2 30	187 1/2	.	.	.	.	.	.	.
94	283	3 80	2 52	2 05	1 62	1 71	1 71	1 50	80	1 38	1 50	1 50	138	.	.	.	.	.	.	.

****Per month.**

STEEL WORKS—Blooming Mill.

No.	Number of days in operation.	Rollers.	Heaters.	Helpers.	Shear-men.	Buggy-loaders.	Shear helpers.	Crane-boys.	Gauge boys.	Jib-boys.	Dool-boys.	Roll engineers.	Stickers-in.	Table engineers.	Ingot engineers.	Shear engineers.	Shifting en- gineers.	Ingot trucks.	Oilers.	Gasmen.	Ashmen.	Blacksmiths.	Blacksmiths' helpers.	Machinists.	Machinists' helpers.	Water tenders.	Firemen.	Water-lays.
145. . . .	253	\$8 00	\$5 00	\$1 50	\$2 50	.	\$1 35	\$0 75	.. .	.	\$0 75	\$2 50	.	\$2 00	.. .	.. .	\$2 50	\$1 50	\$2 00	.. .	.. .	\$2 75	\$1 65	\$2 75	\$1 80	\$2 00	.. .	.. .
136, . .	264	3 77	4 21	2 74	4 03	\$3 40	2 30	1 36	\$1 01	\$1 01	1 18	3 01	\$1 18	3 37	\$2 13	\$1 90	1 60	\$1 50	1 37½	\$1 37½	2 50	\$1 65	2 50	2 50	1 72½	1 68	\$1 75	\$0 96
94, . .																	1 63	1 50	1 38	\$1 50	1 50	2 36	1 65	3 14	1 35	1 68		

STEEL WORKS—Universal Mill.

NUMBER.	No. of days in operation.	Rollers.	Hammer-men.	Heaters.	Lever-men.	Front tongs-men.	Back tongs-men.	Screws men.	Engineers.	Hammer-drivers.	Chargers.	Heaters' help-er.	Buggy-men.	Firemen.	Shear-men.	Crane engi-neers.	Shear-men's help.	Coal firemen.	Laborer.	Roller-boys.	Straighteners.	Crane-boye.	Number-boys.	Door-boys.	Cinder wheeler.	Other.	Wegher.	
107,	333	\$10 50	. . .	\$8 00	. . .	\$2 00	\$2 00	\$3 60	\$2 25	. . .	\$2 00	\$2 70	. . .	\$2 30	3 15	. . .	\$1 70	\$1 37½	. . .	\$2 80	\$1 00	. . .	\$0 50	\$1 45	\$2 09	\$2 00
45, . . . . .	. . .	5 00	. . .	5 00	. . .	\$2 00	\$2 00	\$2 00	\$2 50	. . .	1 50	1 71	\$1 35	. . .	. . .	\$1 68	. . .	\$1 71	. . .	. . .	. . .	. . .	90	\$0 75	. . .	1 38	1 33
94,	266	3 86	\$3 84	3 84	\$2 98	2 70	2 40	2 40	2 28	\$1 89	2 04	1 71	1 50	1 53	. . .	. . .	. . .	. . .	{ 1 30 1 0 1 50 }	\$0 90	. . .	. . .	. . .	. . .	. . .	. . .	. . .
69,	257	6 00	. . .	6 00	. . .	{ 1 70 to 3 00 }	3 00	2 10	. . .	. . .	1 30	3 00	1 30	1 60	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .

IRON PIPE MANUFACTURERS.

NUMBER.	No. of days in operation.	Welders.	Welders' help- ers.	Furnace-men.	Machinist boss.	Machinists (1st class).	Machinists (2d class).	Boys.
32,	126	\$2 75	\$1 53	\$1 50	\$3 00	\$2 00	\$1 33	\$0 80

STEEL WORKS—Casting Department.

NUMBER.	Days in operation.	Pattern-maker.	Moulder.	Core-makers.	Cupola-men.	Engineer.	Blacksmith.	Blacksmith helpers.	Furnace-men.	Chippers.	Laborers.	Crucible-men.	Crucible-help- ers.	Apprentices.
181,	\$2 35	\$2 15	\$1 80	\$2 00	\$1 85	\$2 50	\$1 25	\$1 42	\$1 45	\$1 25	\$2 40	\$1 25	\$0 60

STEEL WORKS—Rolling-mill Department, Sixteen " Train.

NUMBER.	Days in operation.	Rollers.	Chargers.	Buggy-men.	Rough-downs.	Catchers.	Straighteners.	Engineers.	Firemen.	Blacksmiths.	Roll turner.	Blacksmith's help-ers.
153,	\$5 00	\$10 25	\$1 50	\$3 25	\$3 00	\$2 00	\$2 75	1 50	\$2 00	\$3 25	\$1 50

Thirteen " Train.

NUMBER.	Number of days in operation.	Rollers.	Engineers.	Heaters.	Helpers.	Decor-boys.	Roughers.	Catchers.	Finishers.	Hooks.	Run-out hooks.	Straighteners.
94,	257	\$4 02	\$2 23	\$3 12	\$1 74	\$0 85	\$2 32	\$2 23	\$1 56	\$1 14	\$0 99	\$0 96

Twelve " Train.

NUMBER.	Number of days in operation.	Rollers.	Engineers.	Heaters.	Helpers.	Roughers.	Catchers.	Hooks.	Run-out hooks.	Straighteners.	Roll turner.	Blacksmith.	Blacksmith's help-ers.	Water tender.	Hot-bed men.	Firemen
53,	90	\$6 00	\$2 00	\$4 00	\$2 00	\$3 75	\$2 50	\$1 50	\$1 00	\$1 75	\$4 00	\$2 00	\$1 45	\$1 75	\$1 60	\$1 65

STEEL WORKS—Ten-inch Mill.

NUMBER.	Days in operation.										Pilers and chang-				Roughers.		Catchers.	Stickers in.	Straitghtheners.	Shearmen.	Shearmen's help-
											ers.										ers.
109,											\$2 25	\$2 25	\$2 25	\$2 25	\$4 00	\$4 00	\$4 00	\$2 75	\$2 25	\$2 50	\$2 00

Rail Mill.

NUMBER.	Number of days in operation.		Rollers.	Heaters.	First charger.	Second charger.	Pull-out engineers.	Pull-outs.	Buggy-men.	Buggy-boys.	Roller-boys.	Door-boys.	Rough-d wms.	Spell-tenrs.	Finishers.	Spell-roughers.	Finishing tables.	Hook and extra tongs-men.	No. 3 hook.	Chippers.	Extra hook.	Rail workers.	Roll engineers.
94,	257	\$6 69	\$3 95	\$3 73	\$2 59	\$1 56	\$2 22	\$2 40	\$1 03	\$1 01	\$0 82	\$4 24	\$3 35	\$3 57	\$3 16	\$2 92	\$2 92	\$2 74	\$3 10	\$2 77	\$2 69	\$3 46	

Rail Mill—Continued.

NUMBER.	Saw engin vers.	Ran engineers.	Spell-saw engi-ners.	Table engineers.	Water tenders.	End-men.	Number-boys.	Carriage crane.	Bloom shifters.	Inspectors.	Straitghtheners.	Hot-bed men.	Gr gers.	Drillers.	Ran-outs.	Chippers and filers.	Gas men.	Machinists.	Machinists' help-ers.	Others.	Saw filers.	Water-boys.
94,	\$1 71	\$1 62	\$1 50	\$1 74	\$1 62	\$1 36	\$1 19	\$1 54	\$1 71	\$2 29	\$4 18	\$2 43	\$2 27	\$1 93	\$1 40	\$2 12	\$1 50	\$3 00	\$1 25	\$1 50	\$1 32	\$0 93

STEEL WORKS—Converting Mill.

NUMBER.	Number of days in operation.	\$1 50	\$1 50	\$1 20	\$1 20	\$1 20	\$2 70	\$2 10	\$2 33	\$1 80	\$1 50	\$1 50	Third helper.	\$1 20	\$0 90	\$1 65	\$1 50	\$0 90
		Pig-iron weigher.	Pig-iron wheel.	Coke-wheelers.	Lime-stone breaker.	Scrap-wheeler.	Iron-melter.	Iron-melter helper.	Vessel foreman.	First helper.	Second helper.	Third helper.	Back helper.	Crane-boys.	Steel-tapper.	Steel-tapper helper.	Pulpit-boys.	
42,	144																	

Converting Mill—Continued.

NUMBER.	Pourer.	Pourers helper.	Pit-men.	Manganese heater.	Manganese helper.	Blower.	Drilling-tester.	Water-boys.	Carbon-boys.	Bricklayer.	Bottomer.	Bottomer's helper.	Ladle-liner.	Engineer.	Firemen.	Labors.
42,	\$2 25	\$1 50	\$1 65	\$1 95	\$1 20	\$3 00	\$0 90	\$0 52	\$0 83	\$1 50	\$1 80	\$1 35	\$1 50	\$2 00	\$1 50	\$1 20

ROLLING MILLS—Sheet Mill Department.

[illegible]

IRON WORKS—Tube Works Department.

NUMBER.	No. of days in operation.	Lap-welders.	Lap-welders, extra.	Firemen.	Rodmen.	Ballmen.	First straighteners.	Second straighteners.	Roll-overs.	Poke-ins.	Extra roll-overs.	Extra poke-ins.	Ashmen.	Extra firemen.	Extra rodman.	Coal stockers.	Water boys.	Furnace laborers.	Common laborers.
46,	307	\$3 50	\$2 00	\$1 80	\$1 60	\$1 30	\$1 85	\$1 55	\$1 55	$\left\{ \begin{array}{l} \$1\ 80 \\ \text{to} \\ \$1\ 55 \end{array} \right\}$	\$1 30	\$1 30	\$1 15	\$1 25	\$1 30	\$1 20	\$0 50	\$1 20	\$1 15

Tube Works Department—Continued.

NUMBER.	Blister rolls.	Second rodmen.	Butt welders.	Extra butr welders.	Squeezers.	Hookers.	Lay-overs.	Rollers.	Tongs.	Butt firemen.	Iron stockers.	Pipe finishers.	Flue cutters.	Heaters.	Boxmen.	Catchers.	Drags.	Markers.	Provers.
46,	\$1 75	\$1 40	\$2 60	\$1 90	\$1 35	\$1 00	\$0 60	\$0 85	\$0 50	\$1 50	\$1 15	\$1 70	\$1 30	\$3 00	\$1 95	\$1 80	\$1 50	\$1 55	\$1 30

Tube Works Department—Continued.

NUMBER.	Helpers.	Stockers.	Socket-makers, small.	Socket-makers, large.	Annealers.	Swagers.	Barren.	Lamp-boys.	Ball turners.	Watchmen.	Bricklayers.	Teamsters.	Engineers.	Water-tenders.	Oilers.	Machinists.	Blacksmiths.	Blacksmiths' helpers.	Carpenters.	Levermen.	End-openers.
46,	\$1 15	\$1 15	\$2 00	\$3 00	\$1 30	\$1 65	\$1 25	\$0 50	\$1 50	\$1 35	\$2 20	\$1 20	\$1 60	\$1 25	\$1 30	\$2 10	\$2 00	\$1 25	\$1 90	\$1 30	\$1 30

NAIL WORKS—Puddle-Mill Department.

NUMBER.	Number of days in operation.	Puddle-boss.	Puddlers.	Puddlers' helpers.	Rollers.	Hook-ups.	Drag-outs.	Squeeze-men.	Ash-men	Stockers.	Bricklayers.	Blacksmiths.	Shears-men.	Iron-breakers.	Wheelers.	Ore-crushers.	Muck-weighers.
171,	278	..	\$4 00	\$2 10	\$10 00	..	..	..	\$1 35	..	..	..	\$2 00	..	..	..	..
111,	250	\$3 32	3 62	2 35	4 00	\$2 25	\$2 75	\$1 25	..	..	\$4 00	\$2 25	2 00	\$1 40	\$2 00	..	..
139,	294	4 00	3 60	2 50	4 05	1 75	1 95	..	..	\$2 50	6 00	2 50	2 15	2 00	2 00	\$1 75	..
100,	205	..	3 00	2 50	5 00	1 25	1 25	2 00	1 25	1 25	2 50	2 00	1 25	1 25	..	..	..
137,	300	5 00	3 50	2 25	6 90	1 60	2 15	..	..	2 10	4 00	4 00	..	2 50	..	..	..
161,	105	3 00	3 87	2 25	..	1 35	2 75	3 30	1 35	1 75	2 22	2 50	2 50	..	..	..	..

NAIL WORKS—Continued.

COOPER SHOP.			GENERAL LABOR.					NUMBER.	NUMBER.	Number of days in operation.	GENERAL LABOR.				
Coopers.	Boys.	Sawyers.	Ware-house-men.	Carpenters.	Watchmen.	Stable-men.	Laborers.				Ware-house-men.	Carpenters.	Watchmen.	Stable-men.	Laborers.
98,	\$1 40	\$3 00	98, . . . . .	..	..	..	\$1 10	301	..	..	\$1 10	..	\$1 40	\$1 10	\$1 10
66,	1 35	1 15	171, . . . . .	..	..	..	1 45	278	..	..	1 65	..	1 45	1 65	1 35
79,	1 75	..	66, . . . . .	..	..	..	1 30	298	..	..	..	..	1 25	..	1 10
100,	1 75	..	111, . . . . .	..	..	..	1 40	294	..	..	..	2 50	1 75	1 62	1 35
.. . . . .	..	..	79, . . . . .	..	..	..	..	110	..	..	..	..	..	1 35	1 10
.. . . . .	..	..	63, . . . . .	..	..	..	..	..	..	..	..	2 00	1 50	1 10	1 25
.. . . . .	..	..	23, . . . . .	..	..	..	..	264	..	..	..	1 30	1 30	1 10	1 10
.. . . . .	..	..	70, . . . . .	..	..	..	..	180	..	..	..	1 35	1 26	..	1 00
.. . . . .	..	..	..	..	..	..	..	..	..	..	..	1 35	..	..	..
.. . . . .	..	..	..	..	..	..	..	205	..	..	..	2 00	1 50	1 25	1 20
.. . . . .	..	..	100, . . . . .	..	..	..	..	112	..	..	..	..	2 13	..	1 37½
.. . . . .	..	..	126, . . . . .	..	..	..	..	..	..	..	..	..	..	..	..

WIRE MANUFACTURERS.

NUMBER.	Number of days in operation.	Wire-drawers.	Labors.	Blacksmiths.	Engineers.	Carpenters.	Machinists.	Teamsters.	Firemen.	Splicers.	Helpers.	Galvanizers.	Boys.	Machine-tenders.	Machine-tenders (2d class).	Wire cloth weavers.	Iron-workers.	Wire goods makers.	Wire-workers.
529,	310	\$1 75 to 3 50	\$1 30 to 1 75	\$2 00	\$1 75 to 1 90	\$2 00 to 2 75	\$2 00	\$1 40 to 1 75	\$1 70	\$1 75 to 2 00	\$1 00 to 1 60	\$1 25 to 1 75	\$0 50 to 90	\$1 40	\$1 00	\$2 25	\$2 75	\$1 50	\$3 00
499,	300	3 00	1 00				2 50						1 00						
402,	300																		

SPRING MANUFACTURERS.

NUMBER.	Number of days in operation.	Fitters.	Fitters' helpers.	Grinders.	Sloters and nibbers.	Roller.	Head-maker.	Finisher.	Finisher (2d class).	Steel-cutter.	Header-up.	Punching pressman.	Driver.	General-men.	Labors.	Engineers.	Blacksmiths.	Blacksmith helpers.	Machinists.	Pattern-makers.	Coilers.	Tempers.	Dressers.	Spring-fitters.	Spring-fitters' helpers.	Machine-men.
427, . . .	309	\$3 33½	\$2 00	\$2 33½	\$2 50	\$2 00	\$3 00	\$2 33½	\$1 58½	\$2 50	\$1 75	{ \$2 50 and 1 66½ }	\$1 66½	{ \$1 66½ to 2 33½ }	\$1 50	2 00	\$2 75	\$1 25	3 00	\$2 00	\$1 50	\$1 50	\$1 75	\$2 60½	\$1 50	{ \$1 50 to 2 00 }
365, . . .	150	..	..	..	..	..	..	..	..	..	..	..	..	..	1 25	\$2 00	\$2 75	\$1 25	..	..	..	..	..	..	..	..
440, . . .	308	..	..	..	..	..	..	..	..	..	..	..	..	..	1 50	2 00	2 50	1 50	3 00	\$2 00	\$1 50	\$1 50	\$1 75	\$2 60½	\$1 50	..

STOVE MANUFACTURERS.

NUMBER.	Number of days in operation.	Cupola-men.	Cupola-men helpers.	Moulders.	Mounters.	Polishers.	Pattern-makers.	Pattern-filers.	Carpenters.	Engineers.	Laborees (1st class).	Laborees (2d class.)	Emery-grinders' boys.	Apprentices.	Boys.
558,	200	\$2 25	\$2 00	\$3 00	\$2 90	\$1 50	\$3 00	\$2 00	\$2 25	\$2 25	\$1 50	\$1 25	\$1 00	\$1 25	\$0 66
551,	253	2 50	1 66 ² / ₃	3 61	2 80	1 66 ² / ₃	.	2 40	2 50	2 25	1 66 ² / ₃	1 50	.	.	.
563,	289	2 25	1 40	2 75	2 00	1 75	2 50	2 25	2 00	2 25	1 40	1 25	.	.	.
554,	202	2 00	.	2 50	2 25	.	.	.	2 25	2 00	1 45	1 25	.	75	.
546,	209	2 50	1 83	3 00	2 50	2 00	2 50	2 00	2 00	2 00	1 50	1 25	.	.	.
556,	290	2 25	1 45	2 75	2 25	1 90	{ 2 00 to 3 00 }	3 00	2 00	1 65	1 60	1 40	.	.	.
548,	260	2 25	1 66	2 33	2 00	1 68	.	1 66	2 50	2 50	2 00	1 25	.	80	.
560,	233	2 25	1 50	{ 3 00 to 4 00 }	3 00	1 66 ² / ₃	3 00	2 50	2 25	2 25	1 66 ² / ₃	1 25	.	.	.
549,	265	1 75	1 50	2 60	2 50	3 00	8 15	2 20	2 90	3 50	2 00	1 50	.	.	.
558,	256	1 70	1 70	2 00	2 75	3 0	2 50	1 60	2 25	2 00	1 50	1 25	.	.	.
557,	230	2 00	1 25	3 00	3 25	1 50	3 00	.	2 25	1 75	1 75	1 25	.	.	.
542,	287	2 50	{ 1 75 to 2 00 }	2 25	2 70	1 65	3 00	{ 1 80 to 2 25 }	2 20 to 2 35	2 75	1 65	1 45	.	.	.
561,	300	2 25	1 50	{ 2 00 to 5 00 }	2 00 to 4 50	2 25	2 25	1 75	2 00	2 00	2 00	1 25	.	.	.
559,	258	1 75	1 25	2 50	1 75	1 50	2 50	1 50	2 25	1 75	1 25	1 10	.	.	.

FOUNDERS, BOILERMAKERS, MACHINISTS, ETC.

NUMBER.	Number of days in op- eration.	Iron moulders, first class.	Iron moulders, second class.	Brass moulders, first class.	Brass moulders, second class.	Brass finishers.	Cupola tenders.	Cupola helpers.	Furnace tenders.	Casting cleaners.	Coremakers.	Valvemakers.	Patternmakers.	Pipefitters.	Carpenters.	Boilermakers, first class.	Boilermakers, second class.	Boilermakers, third class.	Boilermakers' helpers.
494,	300	\$2 50	. . . . .	. . . . .	. . . . .	. . . . .	\$2 50	\$1 50	. . . . .	\$1 50	\$1 85	. . . . .	\$2 75	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .
514,	275	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	2 00	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .
373,	309	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .
434,	3 2	{ 3 00 to 3 50 }	{ 2 00 to 2 50 }	. . . . .	. . . . .	. . . . .	2 00	1 50	\$1 50	1 50	2 00	. . . . .	2 75	\$2 00	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .
413,*	302	. . . . .	. . . . .	\$2 95	\$2 00	{ \$2 50 and 2 25 }	. . . . .	. . . . .	1 67	1 50	1 00†	. . . . .	2 34	2 20	\$2 50†	. . . . .	. . . . .	. . . . .	. . . . .
418,	308	2 50	2 33	. . . . .	. . . . .	. . . . .	2 16½	1 50	. . . . .	1 50	2 16½	2 46½	2 50	2 33½	. . . . .	\$2 66½	\$2 83½	\$2 25	\$1 41½
520,	308	. . . . .	. . . . .	3 50	1 50	2 50	. . . . .	. . . . .	. . . . .	. . . . .	1 00	2 00	3 50	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .
404,	303	2 67	2 25	. . . . .	. . . . .	. . . . .	1 67	1 50	. . . . .	1 50	2 25	. . . . .	3 00	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .
496,	303	2 85	2 70	. . . . .	. . . . .	. . . . .	1 70	1 50	3 00	1 60	. . . . .	. . . . .	2 50	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .
367,	306	2 50	2 00	. . . . .	. . . . .	. . . . .	2 00	. . . . .	. . . . .	1 50	2 00	. . . . .	3 00	. . . . .	. . . . .	2 50	. . . . .	. . . . .	1 50
502,	303	. . . . .	. . . . .	2 83	1 60	2 75	. . . . .	. . . . .	. . . . .	1 00	1 00	2 25	3 00	2 75	. . . . .	2 66	2 25	2 00	1 00
474,	310	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .
364,	303	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	2 25	1 50	. . . . .	. . . . .	1 75	2 00	2 00	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .
511,	300	2 50	2 00	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	1 25	{ 1 66½ to 2 00 }	. . . . .	2 50	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .
418,	300	{ 2 66½ to 3 00 }	{ 2 00 to 2 50 }	. . . . .	. . . . .	. . . . .	2 00	1 50	1 50	1 50	1 50	. . . . .	2 75	2 00	. . . . .	2 50	2 00	1 67	1 50
452,	302	2 67	2 50	. . . . .	. . . . .	. . . . .	2 33	1 33	. . . . .	1 50	2 00	. . . . .	2 80	. . . . .	. . . . .	3 00	2 50	2 30	{ 1 33½ 1 70 1 25 }
442,	303	3 00	2 50	2 66	1 20	. . . . .	2 00	1 50	. . . . .	9 00	2 00	. . . . .	2 50	2 30	. . . . .	2 35	2 00	1 80	1 25
527,	308	2 50	2 15	2 80	. . . . .	2 25	2 15	1 50	1 80	1 35	1 90	2 40	2 50	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .
475,	300	{ 2 87½ to 3 00 }	{ 2 50 to 2 75 }	2 75	. . . . .	. . . . .	2 25	1 50	2 50	{ 1 50 to 1 65 }	2 50	. . . . .	3 00	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .
388,	305	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	2 00	1 70	. . . . .	. . . . .	1 80	. . . . .	2 50	2 10	. . . . .	2 50	2 00	. . . . .	1 60
443,	231	3 26	1 94	. . . . .	. . . . .	. . . . .	2 00	1 66½	. . . . .	1 37½	2 50	. . . . .	2 00	. . . . .	. . . . .	2 00	. . . . .	1 50	1 35
353, . . . . .	. . . . .	2 50	1 75	. . . . .	. . . . .	. . . . .	1 35	. . . . .	. . . . .	1 30	. . . . .	. . . . .	3 00	. . . . .	. . . . .	2 75	2 50	2 00	1 50
516,	309	3 00	2 50	. . . . .	. . . . .	. . . . .	1 50	1 40	. . . . .	1 40	. . . . .	. . . . .	3 00	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .

* We share our profits with our employees—for the year ending December 31, 1888, we divided \$9,100 amongst them.

† Girls.

‡ Boxmakers \$1.75. Polishers \$1.83. Nickelpaters \$3.00.

Founders, Etc.—Continued.

NUMBER.	Number of days in operation.	Iron moulders, first-class.	Iron moulders, second-class.	Brass moulders, first-class.	Brass moulders, second-class.	Brass finishers.	Cupola tenders.	Cupola helpers.	Furnace tenders.	Castling cleaners.	Core-makers.	Valve-makers.	Pattern-makers.	Pipe-fitters.	Carpenters.	Boilermakers, first-class.	Boilermakers, second-class.	Boilermakers, third-class.	Boilermakers' helpers.
391,	308	\$3 00	\$2 50	..	..	{ \$2 00 to 2 50 }	\$2 20	\$1 60	..	\$1 50	\$2 00	..	\$2 70	..	..	..	..	..	..
445,	305	..	..	\$3 00	\$2 50	..	..	..	\$1 75	1 75	2 00	\$3 00	..	\$2 25	..	..	..	..	..
355,	300	2 25	1 00	..	..	..	1 10	..	1 50	1 00	1 50	..	1 80	..	..	..	..	..	..
476,	300	..	..	2 75	..	2 75	..	..	..	1 50	2 50	..	2 00	..	..	..	..	..	..
431,	309	2 75	..	..	..	..	2 00	1 66	..	1 42	2 75	..	3 00	2 25	..	..	..	..	..
401,	309	3 00	2 50	..	..	..	2 50	1 66 ² / ₃	..	1 66 ² / ₃	2 25	..	2 75	..	..	..	..	..	..
401,	302	3 00	2 50	..	..	..	2 50	1 66 ² / ₃	..	1 66 ² / ₃	2 25	..	2 75	..	..	..	..	..	..
419,	303	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
492,	307	2 99	2 57	..	..	..	2 85	1 74	3 01	..	2 53	..	2 92	..	..	..	..	..	..
414, . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	2 75	..	..	..	..	..	..
..	..	{ 2 61 ¹ / ₂ to 3 33 ¹ / ₂ }	{ 2 00 to 2 61 ¹ / ₂} }	..	..	..	..	..	..	..	..	..	{ 2 00 to 4 11 ² / ₃} }	..	..	..	..	..	..
394,	300	2 50	2 17	..	..	..	2 00	1 50	2 00	1 33 ¹ / ₃	1 50	..	..	..	..	..	..	..	..
450,	306	..	..	..	..	..	2 17	1 50	..	1 50	2 31	..	2 67	..	..	..	..	..	..
426,	275	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
372,	314	2 25	1 50	..	..	2 50	1 80	1 25	..	1 30	1 10	..	2 50	..	..	..	..	..	..
356,	315	..	..	..	..	..	..	..	..	..	..	..	2 50	..	..	..	..	..	..
508,	308	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
472,	309	2 75	2 25	..	..	..	2 50	1 66 ² / ₃	..	1 41 ² / ₃	2 25	..	2 75	..	..	..	..	..	..
376,	304	3 00	2 50	..	..	..	1 50	1 25	..	1 25	1 50	..	2 50	..	..	..	..	..	..
438,	295	4 16 ² / ₃	2 50	..	..	..	2 00	9 00	..	9 00	2 33 ¹ / ₃	..	..	{ 2 00 to 3 00 }	..	..	..	..	..
453,	309	..	..	2 50	2 00	{ 2 00 to 3 00 }	..	..	..	1 50	83	2 70	2 75	{ 2 00 to 3 00 }	..	\$2 25	\$2 00	\$1 50	..
530,	309	2 40	2 25	..	..	..	1 70	1 40	..	1 35	2 00	..	2 50	..	..	..	..	..	..
400,	307	2 75	2 50	..	..	..	2 00	1 50	..	1 50	2 25	..	2 75	..	..	..	..	..	..
439,	290	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
464,	309	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	{ 1 70 to 2 10 }	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
358,	306	2 25	..	2 00	1 75	1 90	1 50	1 20	..	1 20	1 60	..	1 80	1 70	..	..	..	..	..
354,	301	2 66 ² / ₃	1 83 ¹ / ₃	2 66 ² / ₃	1 83 ¹ / ₃	..	1 77	1 25	..	1 66 ² / ₃	1 75	..	2 66 ² / ₃	2 16 ² / ₃	..	2 50	2 33 ¹ / ₃	\$1 83 ¹ / ₃	1 50
380,	300	1 80	1 50	..	..	..	1 90	..	..	1 50	..	..	..	..	..	..	..	..	..
422,	308	..	..	2 50	..	2 66	..	1 50	1 66	..	1 83 ¹ / ₃	..	..	..	..	..	..	..	..

Founders, Etc.—Continued.

[illegible]

399,	75	2 39	2 00	{ 1 50 to 1 70 }	3 05	2 10	1 60	2 20	1 50	50	1 40	1 20	...	...	...	...	...	...	...
443,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
353,	1 25	2 75	1 75	1 25	...	2 00	...	2 04	1 35	75	1 50	1 41	...	...	...	...	...	...	...
516,	1 00	3 00	2 50	1 50	...	2 25	...	{ 2 50 to 3 00 }	1 50	{ 1 00 to 1 50 }	1 50	1 25	...	...	...	...	...	...	...
391,	...	3 60	2 75	1 40	3 25	2 20	1 40	2 30	1 50	...	1 80	1 20	...	...	...	...	...	...	...
443,	...	2 75	2 00	1 50	3 40	2 00	...	...	...	75	1 75	1 50	...	...	...	...	...	...	...
353,	1 00	1 60	1 00	1 00	...	2 50	1 50	1 35	1 00	1 00	1 00	1 00	...	...	...	...	...	...	...
476,	...	...	...	...	...	2 25	...	...	1 66	...	1 66	1 42	...	...	...	...	...	...	...
481,	...	2 50	2 25	...	3 00	2 75	2 00	2 25	1 66	66 2/3	1 66 2/3	1 50	...	...	...	...	...	...	...
401,	...	3 00	2 25	1 75	3 00	2 75	2 00	2 75	1 66 2/3	66 2/3	1 66 2/3	1 50	...	...	...	...	...	...	...
401,	...	3 00	2 25	1 75	3 00	2 75	2 00	2 75	1 66 2/3	58	1 66 2/3	1 50	...	...	...	...	...	...	...
419,	...	2 42	2 00	...	...	2 11 2/3	1 83 2/3	2 50	1 50	{ 58 to 1 00 }	1 25	1 15	...	...	...	...	...	...	...
492,	...	2 95	2 35	...	8 75	2 00	...	2 80	1 64	74	1 69	1 40	...	...	...	...	...	...	...
414,	...	2 25	...	...	...	...	...	2 75	1 50	52	...	...	...	...	...	...	...	...	...
394,	...	2 61 2/3	2 00	{ 1 35 1/3 to 1 66 2/3 }	...	2 83 1/3	...	2 00	...	{ 66 2/3 to 1 16 2/3 }	1 50	1 42 1/3	...	...	...	...	...	...	...
450,	...	2 67	2 17	1 50	2 67	2 00	...	2 50	1 50	{ 50 to 75 }	1 50	1 42	...	...	...	...	...	...	...
426,	...	{ 2 66 2/3 to 3 35 1/3 }	1 50	1 00	3 27	{ 2 00 to 3 00 }	1 66 2/3	{ 2 00 to 2 50 }	1 33 1/3	...	1 66 2/3	1 20	...	...	...	...	...	...	...
372,	...	2 50	1 75	1 35 1/3	2 50	2 50	3 00	3 00	2 50	50	1 50	1 25	...	...	...	...	...	...	...
356,	...	{ 2 50 to 2 75 }	2 25	1 50	2 50	2 00	...	2 50	1 75	75	1 50	1 25	...	...	...	...	...	...	...
508,	...	2 25	2 50	1 75	...	2 10	...	2 35	1 75	1 25	1 50	...	...	...	...	...	...	...	...
472,	...	2 75	2 25	...	3 00	2 00	...	2 75	1 50	1 00	1 50	1 25	...	...	...	...	...	...	...
376,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
488,	...	...	...	...	...	2 00	...	...	...	{ 66 2/3 to 1 00 }	...	...	...	...	...	...	...	...	...
453,	...	2 90	2 75	1 50	...	...	...	...	...	1 00	...	...	...	...	...	...	...	...	...
530,	75	2 50	2 25	1 40	3 00	...	1 60	2 40	1 35	80	1 50	1 40	...	...	...	...	...	...	...
400,	...	3 00	2 25	2 00	2 50	...	...	2 25	...	55	1 66	1 50	...	...	...	...	...	...	...
439,	...	3 08	2 50	...	2 50	...	...	2 50	1 50	98	1 50	1 29	...	...	...	...	...	...	...
464,	...	2 80	...	...	...	...	...	4 00	2 00	50	2 00	1 50	...	...	...	...	...	...	...
353,	...	2 25	{ 1 80 to 2 00 }	1 20	...	2 00	...	2 00	1 25	{ 50 to 1 00 }	1 50	1 20	...	...	...	...	...	...	...
354,	50	2 41 2/3	2 10 2/3	1 35	3 00	2 00	...	2 40	1 50	...	1 50	1 35	...	...	...	...	...	...	...
380,	...	1 80	1 50	{ 1 25 to 1 33 }	...	1 92	...	1 75	1 33 1/3	50	1 33 1/3	1 25	...	...	...	...	...	...	...
422,	...	...	...	...	...	3 66 1/3	1 75	...	...	66 2/3	...	...	...	...	...	...	...	...	...
178,	...	3 50	3 00	1 80	3 50	2 00	...	2 50	1 50	...	1 60	1 80	...	...	...	...	...	...	...

Founders, Etc.—Continued.

NUMBER.	Rivet heaters.	Machinists, first-class.	Machinists, second-class.	Machinists' helpers.	Draughtsmen.	Engineers.	Firemen.	Blacksmiths.	Blacksmiths' helpers.	Apprentices.	Laborers, first-class.	Laborers' second-class.	Patternmakers, second-class.	Blacksmiths, second-class.	Blacksmiths, ordinary.	Cupola stockers.	Clippers.	Ironmakers.	Rivemakers.	Riveters.
518,	.....	\$1 80	\$1 60	\$1 30	.....	\$2 50	.....	\$1 50	\$1 30	{ \$0 65 and 70 }	\$1 30	.....	.....	.....	.....	.....	.....	.....	.....	.....
393,	.....	2 75	{ 2 00 to 2 50 }	.....	.....	.....	.....	.....	.....	45	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
483,	.....	2 50	.....	.....	.....	2 00	.....	2 25	.....	.....	1 35	.....	.....	.....	.....	.....	.....	.....	.....	.....
No. 6,	.....	2 00	.....	.....	.....	.....	.....	2 20	.....	.....	1 20	\$1 25	.....	.....	.....	.....	.....	.....	.....	.....
46,	60	2 65	2 20	1 20	\$3 25	1 50	\$1 10	2 20	1 35	70	1 20	1 10	.....	.....	.....	.....	.....	.....	.....	.....
390,	.....	.....	.....	.....	.....	.....	.....	2 25	.....	.....	1 50	1 25	.....	.....	.....	.....	.....	.....	.....	.....
370,	60	2 25	2 00	1 30	2 00	.....	.....	2 25	1 20	75	1 20	1 10	.....	.....	.....	.....	.....	.....	.....	.....
506,	.....	{ 2 50 to 2 83 }	{ 2 00 to 2 33 }	1 33	.....	1 83	.....	2 25	1 33	{ 42 to 1 08 }	1 33	.....	.....	.....	.....	.....	.....	.....	.....	.....
11,	.....	3 25	{ 2 50 to 2 75 }	1 30	.....	.....	.....	3 60	1 35	.....	1 15	.....	\$1 75	\$2 34	\$1 70	\$1 75	\$1 15	.....	.....	.....
395,	1 25	2 00	.....	.....	.....	1 60	1 50	2 70	1 35	1 10	1 25	.....	.....	.....	.....	.....	.....	\$1 90	\$2 20	\$1 45
116,	.....	2 50	.....	.....	.....	2 25	.....	{ 2 25 to 2 50 }	1 50	.....	1 40	.....	.....	.....	.....	.....	.....	1 75	.....	2 00
94,	.....	{ 3 30 to 3 85 }	2 00 to 2 45	{ 1 55 to 1 75 }	.....	.....	.....	{ 1 60 to 2 75 }	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
386,	.....	2 50	2 00	1 50	{ 2 50 to 4 16 }	2 50 to 3 00	{ 1 60 1/2 to 1 83 1/4 }	3 00	{ 1 33 1/2 to 1 75 }	.....	1 33 1/2	1 25	.....	2 00	.....	.....	.....	.....	.....	.....

Founders, Etc.—Continued.

NUMBER.	Riveters, first-class.	Riveters, second-class.	Riveters' helpers.	Rivet-strikers.	Templatemakers.	Markers-out.	Fitters-up.	Punchers.	Punch-men.	Punch-boys.	Water-boys.	Bucker.	Rivet-heater.	Straighteners.	Filters.	Drillers.	Screw-cutters.	Drillers and planers.	Laboring bosses.	Assemblers.	Erectors.	Erectors' helpers.	Watchmen.	Hammer men.
494,	{ \$1 90 to 2 00 }	\$1 75	\$1 50	. . .	\$2 50	\$1 75	. . .	\$2 00	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	\$1 75	\$2 10	\$2 50	\$2 75	\$2 50	{ \$1 75 to 2 00 }	. . .	. . .
514, . . . . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .
434,	2 50	2 00	1 50	. . .	. . .	. . .	. . .	{ 1 75 to 2 50 }	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	2 50	. . .	. . .	. . .
483, . . . . .	. . .	. . .	. . .	. . .	3 00	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .
6,	2 25	. . .	. . .	\$1 20	2 50	. . .	. . .	. . .	\$1 60	\$0 40	\$0 60	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .
895, . . . . .	. . .	. . .	. . .	1 50	2 50	. . .	\$1 10	. . .	2 00	. . .	. . .	\$1 50	\$0 75	\$1 90	\$1 75	\$2 10	1 60	. . .	. . .	. . .	. . .	. . .	. . .	. . .
116, . . . . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	2 25	. . .	. . .	. . .	. . .	2 50	. . .	. . .	. . .	. . .	. . .
386, . . . . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .

Founders, Etc.—Continued.

NUMBER.	Locomotive engineers.	Conductors.	Brakemen.	Woodworking machine hand.	Woodworking machine hands.	Skelp scarfers.	Skelp benders.	Pipe welders.	Pipe cutters and thread-ers.	Oilers.	Teamsters.	Watchmen.	Hammer men.	Socket welder.	Socket bender.	Bricklayers.	Bricklayers.	Painters.	Laborees, third-class.	Laborees, fourth-class.
116,	\$2 50	\$1 90	\$1 43	. . .	. . .	. . .	. . .	. . .	{ \$1 43 to 2 10 }	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .
386, . . . . .	. . .	. . .	. . .	\$2 10	\$1 50	\$2 50	\$3 00	\$5 00	. . .	\$1 66½	\$1 75	\$2 00	. . .	\$3 75	\$3 75	\$1 00	\$3 75	\$3 00	\$1 16½	\$1 05½

SAW MANUFACTURERS.

NUMBER.	Number of days in operation.	Circular-saw smiths.	Circular-saw holders-up.	Circular-saw grinders.	Circular-saw glazers.	Long-saw smiths.	Long-saw grinders.	Long-saw glazers.	Hand-saw smiths.	Hand-saw grinders.	Hand-saw glazers.	Hand-saw sharpeners.	Long-saw sharpeners.	Circular-saw sharpeners.	Machinists.	Carpenters.	Blacksmiths.	Blacksmiths' helpers.	Laborers.
405,	300	{ \$3 50 to 4 00 }	\$1 66 2/3	{ \$2 50 to 3 00 }	{ \$3 50 to 4 00 }	\$2 50	\$2 50	\$2 50	{ \$2 25 to 3 00 }	{ \$2 25 to 3 00 }	\$3 50	{ \$2 50 to 3 00 }	\$3 00	{ \$2 50 to 3 00 }	{ \$2 50 to 3 00 }	\$2 75	{ \$2 50 to 3 25 }	\$1 66 2/3	\$1 50

STREET RAILWAYS—Continued.

NUMBER.	No. of days in operation.	Conductors.	Drivers.	Driver's fare, box cars.	Drivers with registers.	Fare, box collectors.	Receivers.	Stable boss.	Stable assistants.	Hostler's and feeders.	Car-house men.	Track boss.	Trackmen.	Flagmen.	Watchmen.	Blacksmiths.	Blacksmith's helpers.	Horse shoers.
1121,	366	. . . . .	1 25	. . . . .	. . . . .	. . . . .	. . . . . { 2 50 to 3 00 }	. . . . .	. . . . .	. . . . .	1 50	. . . . .	. . . . .	. . . . .	. . . . .	. . . . . { 2 50 to 3 00 }	. . . . . 2 25	. . . . . { 2 50 to 3 00 }
1127,	366	2 00	2 00	. . . . .	. . . . .	. . . . .	. . . . .	2 75	2 00	1 50	1 50	2 50	2 00	1 50	1 50	. . . . .	. . . . .	. . . . . { 2 50 to 3 00 }
1113,	366	. . . . .	{ 1 50 to 1 75 }	. . . . .	. . . . .	. . . . .	. . . . .	2 50	. . . . .	1 66 $\frac{2}{3}$	1 66 $\frac{2}{3}$	1 75	. . . . .	. . . . .	1 66 $\frac{2}{3}$	2 08 $\frac{1}{2}$	. . . . .	. . . . . { 2 50 to 3 00 }
1140,	366	1 60	1 60	. . . . .	. . . . .	. . . . .	. . . . .	2 00	1 33	. . . . .	. . . . .	. . . . .	1 33	. . . . .	1 33	. . . . .	. . . . .	. . . . . 3 00
1131,	366	2 00	2 00	2 00	. . . . .	. . . . .	. . . . .	3 00	1 85	1 50	. . . . .	2 50	1 75	. . . . .	1 50	3 00	. . . . .	. . . . . 3 00
1142,	366	1 20	1 02	. . . . .	. . . . .	. . . . .	. . . . .	1 66 $\frac{2}{3}$	. . . . .	1 28	1 30	. . . . .	1 35	. . . . .	1 28	1 50	. . . . .	. . . . . 1 50
1160,	314	{ 1 54 to 1 73 }	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	{ 1 54 to 1 73 }	1 54	1 25	. . . . .	. . . . .	1 73	. . . . .	. . . . .
1134,	366	2 00	1 50	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	1 81 $\frac{1}{2}$	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .
1137,	366	{ 2 25 to 2 66 $\frac{2}{3}$ }	2 00	. . . . .	. . . . .	. . . . .	. . . . .	1 75	1 75	. . . . .	. . . . .	1 83	*2 00	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .
1149,	312	1 54	1 54	. . . . .	. . . . .	. . . . .	. . . . . { 1 00 to 2 00 }	. . . . .	. . . . .	1 54	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .
1112,	366	. . . . .	. . . . .	2 00	. . . . .	. . . . .	. . . . .	2 00	1 50	1 40	. . . . .	2 50	1 50	. . . . .	{ 1 40 to 1 60 }	. . . . .	. . . . .	. . . . . 3 00

STREET RAILWAYS—Continued.

NUMBER.	Horse shoers help-ers.	Harness makers.	Harness makers as-sistants.	Car builders.	Carpenters.	Carpenters assist-ants.	Engineers.	Firemen.	Dummy engineers.	Laborers.	Grillmen.	Painters.	Motor men.	Oil boy.	Electrician.	Tow boy.	Inspector.	Car washer, female.
1125,										\$1 50								
1141,					\$2 25		\$3 00	\$1 50	\$2 25	1 50	\$2 25							
1145,	\$2 33	\$2 00								1 50								
1132,										75								
1139,		1 92	\$0 83½	2 83	2 25	\$1 66½	2 25			1 50		\$2 25						
1148,					3 25					1 25			\$1 80					
1124,					2 25	2 00				1 75								
1152,	1 66½	2 00		2 50	2 25					1 10								
										to								
1130,										1 25								
										1 35								
1151,		1 25		2 25	1 80	1 75				1 50								
1146,	1 66½				2 50	2 25												
1111,																		
1115,		2 50		2 25	2 25													
1147,										1 50	2 25							
1150,					2 00	2 00	2 50 to 3 00	2 00		1 50								
1155,										1 50			1 25					
1121,							1 80			1 10								
1127,	2 00	3 00	2 00	2 50 to 3 00					2 50									
1113,										1 50								
1140,										1 33								
1131,	2 75	2 50		2 50						1 50								
1142,		1 28		1 75						1 35					\$3 08			
1160,					2 00									\$0 96				
1134,										1 25								
1137,							2 66½	2 25		1 50								
1149,										1 50								
1112,	2 75	2 00		2 25												\$1 00	\$2 50	\$1 00

*Trackmen are hired as needed.

WOOLEN GOODS.

NUMBER.	No. of days in operation.	Assorting foremen.		Assorters.	Boys.	Dyeing foreman.	Dyeing assistants.	Engineer.	Carding foremen.	Carding assistant.	Men.	Females.	Spinning foremen.	Spinning assistant.	Youth.	Spinners.	Spoolers, female.	Dressing foremen.	Dressing assistant.	Fixers.
		\$3 00	\$2 24																	
861,	297				{ \$0 60 to 65 }	\$4 00	\$1 80	\$2 00	\$4 00	\$1 75	{ \$1 00 to 1 30 }	\$0 50	\$3 00	\$1 65	{ \$0 42 to 1 00 }	71	{ \$0 42 to 64 }	\$4 00	\$2 25	\$2 03
957,	306							3 33												
899,											{ \$1 50 to 2 12 }									
982,	300				60															
855,	300							2 50	3 00	1 42			2 25	65						
927,	306							2 00		{ 1 00 to 1 33 1/2 }						2 50				
981,	250				{ 50 to 75 }			1 50	2 00								50			
915,	306																			
877,	357																			2 60 2/3
972,	292							2 00	2 50	1 25										
967,								1 50	1 75		1 25		1 75							
845,	300																1 75			
906,	290				{ 83 to 1 00 }				3 50			75	3 00							
868,	300									1 50							1 00			

WOOLEN GOODS—Continued.

NUMBER.	Dressers.	Weaver foremen.	Weavers.	Weavers, female.	Finishing foremen.	Finishing assistant.	Finishers.	Finishers, females.	Loom boss.	Loom assistant.	Beamers.	Twisters.	Winders.	Machinist.	Machinist's apprentice.	Carpenter.	Firemen.	Watchmen.
861,	(\$1 43 to 1 80)	..	..	(\$0 40 to 96)	\$4 00	\$2 25	..	(\$0 45 to 1 00)	..	..	..	..	..	\$2 50	\$1 00	1 71	\$1 35	\$1 43
957,	\$1 00	..	..	..	..	..	\$3 00	\$2 50	\$2 30	\$1 50	\$1 00	..	..	..	..	..
869,	1 40	..	..	..	..	..	2 50	..	2 33	..	..	..	..	..	..	..
982,	1 20	..	..	(\$0 70 to 1 40)	..	..	..	..	..	..	..	..	..	..	..
855,	1 72	..	2 20	..	(\$0 50 to 92)	..	3 00	..	2 25	..	..	..	..	..	..	1 50
927,	1 28	..	..	..	..	..	2 00	..	2 50	1 83½	..	..	..	..	..	..
981,	1 00	..	..	..	1 75	..	2 00	..	..	2 25	1 50	..	..	..	..	..
915,	2 00	..	..	..	2 00	..	..	..	..	..	..	..	..	..	..	..
877,	2 16½	..	1 50 1 66½ 2 50	..	..	..	..	..	..	..	..	..	1 00	..	..	..	..	..
972,	..	\$2 50	1 16	88½	2 00	*90	50	..	..	..	1 69½	..	..	..	..	..	..	..
967,	..	1 75	1 00	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
845,	..	1 75	..	..	..	..	1 25	..	..	..	..	3 50	..	..	..	..	..	..
906,	..	2 50	1 67	1 67	3 00	..	1 50	..	..	..	..	..	..	..	..	..	..	..
868,	2 55	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

*Boy.

WOOLEN GOODS—Continued.

NUMBER.	Spoolers.	Dyer boss.	Dyers.	Beam room overseer.	Ware room	Ware room overser.	Ware room hands.	Burlers.	Teamsters.	Shovelers.	Inspectors of cloth.	Head tenders for spinner.	Piecers.	Warper.	Cloth boss.	Filling boss.	Card boys.	Wool sorters.	Sup't of mend- ers.
800,		\$2 50	\$2 00	\$2 36	\$2 50	\$1 67		\$1 17		\$1 10	\$2 17								
982,			1 40																
855,		3 05	1 45						\$1 50			\$1 33½	\$0 66½						
927,		2 33½	1 33½					75						\$2 16½	\$1 33½	\$1 50			
981,														2 50			\$0 75	\$1 50	\$1 87½
915,																			
877,			1 66½					{ \$1 00 to 1 25 }									{ \$0 35 to 65 }	1 25	
972,			1 16½														2 00		
967,			1 50											2 25					
906,	\$1 75	3 00	1 90											2 00					
868,																			

NUMBER.	Menders.	Burlers.	Drawers in.	Loom fixers.	Spooler boys.	Jack spinners.	Handers-in boys.	Shear hands.	Counter hands	Gigs.	Washers.	Spoolers.	Spinner boys.	Day-help.	Ware room men	Ware room girls.	Spinners, fe- males.	Burlers, fe- males.
915,	{ \$1 25 to 1 33½ 1 16½ to 1 50 }	{ \$0 66½ to 83½ }	\$2 25	\$2 75														
877,			{ \$2 50 to 3 00 }		\$1 00	\$1 50	\$0 66½	\$1 32½	\$1 00	\$1 25	\$1 33½	\$1 00	{ \$0 45 to 75 }					
972,														\$2 00	\$2 70	\$0 75	\$0 75	\$0 75
906,																		
863,	1 33										1 66½							

KNIT GOODS.

NUMBER.	Number of days in operation.	Boat carder.	Second boys.	Card operators, boys.	Boat spinner.	Spinners.	Spinners, boys.	Boat knitter.	Knitters.	Needle-boys.	Boat washer and fuller.	Helper.	Picker-room boys.	Engineer.	Day watchman.	Night watchman.	Man boarding room.	Shipper.	Female knitters.	Female winders.	Sewing forewoman.	Day hands.	Seamers.
966,	180	\$3 00	\$1 75	\$0 75	\$2 00	..	\$1 00	\$3 00	..	\$1 00	\$2 00	\$1 25	\$0 96	\$1 62	\$1 25	\$1 33	\$2 00	\$2 00	\$1 00	\$0 84	\$1 25	{ \$0 60 to 70 }	\$0 96
969,	252	3 00	2 00	..	..	\$2 25	..	3 00	\$1 25	..	..	..	..	2 50	..	..	2 00	..	..	..	..	..	..
971,	285	..	..	..	..	..	..	2 50	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
981,	200	..	..	..	..	..	..	..	2 00	..	..	..	..	..	..	..	..	..	..	..	..	..	..
988,	{ 200 to 300 }	..	..	..	..	2 50	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
990,	300	..	..	..	..	..	..	3 00	2 50	..	..	..	..	..	..	..	..	..	..	1 00	..	..	..
999,	289	..	..	..	..	..	..	3 00	..	..	..	1 00	..	..	..	..	..	..	..	55	..	..	..

KNIT GOODS—Continued.

NUMBER.	Menders.	Cutters.	Ribbons.	Finisher fore- woman.	Hands on ma- chine.	(ard-roomhelp- ers.	Spinners.	Weavers.	Pressers and packers.	Forewoman.	Weavers' women.	Weavers' h lp- ers.	Operators.	Cubbers.	Heelers.	Pairers.	Spooler ma- chines.	Loopers.	Finishers.	Winder-boys.	Spooler-girls.	Hand sewers-	Machine sew- ers	Warpers, men	
986,	1 00	2 00	1 00	1 50	\$1 00	\$1 00	\$0 50	\$2 00	\$1 25	\$1 25	\$1 00	\$0 50	\$1 25	\$1 25	\$1 00	\$0 70	\$0 70	\$1 00	\$1 00	\$1 00	\$0 75	\$1 50	\$1 50	\$1 75	\$2 00
896,	1 00																		1 75						
941,	1 00	3 00																	1 25 to 2 00						
901,	1 00																1 00								
938,		*1 50									1 75		1 25								\$0 75	\$1 50	\$1 50	\$1 75	\$2 00
900,													80												
939,	60									2 50										70					

* Females.

YARNS.

NUMBER.	Number of days in operation.	Nature of product.	Drawing overseer.	Drawing girls.	Twisting overseer.	Twisters.	Combers.	Spinners.	Sorters.	Spinners (females).	Twisters (females).	Dofters (females).	Reelers (females).	Engineers.	Machinist.	Driver.	Scourers.	Combing foreman.
858,	300	{ Silk yarns and worsted yarns.	\$3 50	\$1 00	\$3 50	{ \$0 63 to 91	{ \$0 91 to 1 00	\$0 66	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .
879,	306	{ Worsted, woolen and mohair yarns.	. . .	1 20	. . .	. . . . .	1 40	. . . . .	. . . . .	1 25	\$1 85	\$0 60	\$1 10	\$3 00	\$2 25	\$1 60	. . . . .	. . . . .
887,	305	{ Worsted and woolen yarns and braid.	3 00	94	3 00	91	. . . . .	. . . . .	\$2 00	\$0 83	. . .	53	1 13	. . .	. . .	. . .	\$1 65	\$3 00
954,	300	{ Cotton and woolen yarns.	. . .	. . .	. . .	90	. . . . .	1 60	. . . . .	. . . . .	. . . . .	. . . . .	1 00	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .
951,	300	{ Woolen and cotton yarns and dyeing.	. . .	. . .	. . .	. . . . .	. . . . .	85*	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .
869,	312	{ Carpet yarns.	. . .	. . .	. . .	1 00	. . . . .	2 50	. . . . .	. . . . .	. . . . .	. . . . .	1 00	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .
910, . . . . .	. . .	{ Woolen yarns.	. . .	. . .	. . .	. . . . .	. . . . .	2 67	1 33	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .
945,	230	{ Woolen and merino yarn.	. . .	. . .	. . .	. . . . .	. . . . .	{ 75 to 2 10 3/4	2 00	. . . . .	. . . . .	. . . . .	1 11 1/2	2 50	. . . . .	1 75	1 60 3/4	. . . . .
965,	300	{ Fine wool yarn.	. . .	. . .	. . .	. . . . .	. . . . .	1 00	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .
851,	306	{ Cotton yarns.	. . .	. . .	. . .	. . . . .	. . . . .	{ 85 to 1 75	. . . . .	. . . . .	. . . . .	. . . . .	{ 65 to 1 75	2 75	2 75	. . . . .	. . . . .	. . . . .
955,	293	{ Woolen and cotton yarns.	. . .	. . .	. . .	. . . . .	. . . . .	1 50	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	2 00	. . . . .	. . . . .	. . . . .	. . . . .
860,	260	{ Woolen yarn.	. . .	. . .	. . .	. . . . .	. . . . .	2 50	3 00	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	2 66	. . . . .	. . . . .	. . . . .
861,	309	{ Worsted yarn.	5 00	75	. . .	83 1/2	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	66 3/4	{ 92 to 1 00	8 00	3 00	. . . . .	. . . . .	2 50

YARNS—Continued,

NUMBER.	Combing help.	Spinning foreman.	Carding foreman.	Carding help.	Braiding foreman.	Braiding help.	Packers.	Dye-hands.	Spooling.	Carders.	Strippers.	Stock-boys.	Pickers.	Mule-head tenders.	Mule-pickers (boys).	Piecers.	Sweeper-boys.	Speeder-tender.	Cop-packers.	Overseer.
837,	\$.98	\$3 00	\$2 07	\$0 90	{ \$2 50 to 3 00 }	\$0 86	\$0 67	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
834,	..	4 00	4 00	{ 1 25 to 1 50 }	.....	.....	.....	{ \$1 50 to 3 00 }	\$0 50	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
851,	1 00	.....	.....	.....	1 75	..	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
869,	83	..	92	\$2 75	\$1 50	\$0 50	.....	.....	.....	.....	.....	.....	.....	.....
910,	1 50	.....	.....	..	83 1/2	3 17	1 50	.....	\$1 33	\$1 33	\$0 67	.....	.....	.....	.....	.....
945,	{ 83 to 2 50 }	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
965,	1 00	1 50	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
851,	87	.....	1 23	.....	.....	.....	.....	\$0 65	{ \$0 50 to 60 }	\$1 25	\$0 75	\$3 00
955,	..	2 66	2 66	1 50	.....	.....	.....	.....	..	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
850,	1 83	..	.....	.....	.....	1 50	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
861,	96 2/3	3 33 1/2	..	..	.....	.....	.....	.....	.....	.....	1 50	.....	1 66 2/3	.....	75	.....	.....	.....	.....	2 66

BUILDING BRICK MANUFACTURERS.

NUMBER.	Number of days in operation.	Moulders.	Pressers.	Pressers' helpers.	Millers.	Pan tenders.	Temperers.	Stock-breakers.	Setters.	Burners.	Burners' helpers.	Off-bearers from moulds.	Off-bearers from press.	Sorters.
1106,	180	\$3 50 2 25 2 75 3 25	\$2 50	\$0 60	. . . . .	. . . . .	. . . . .	. . . . .	\$3 25	\$4 25 4 00 4 50	\$2 25 1 75 to 2 00	\$1 75 1 25 to 1 75	\$1 50	\$3 25
1107, . . . . .	. . . . .	2 25 2 75 3 25	2 50	50	. . . . .	. . . . .	. . . . .	. . . . .	3 25	4 50	2 00	1 75	1 35	3 25
1108,	180	2 75 15 3 25	2 50	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	3 25	4 75	2 25	1 60 to 1 75	1 35	3 25
1109,	170	3 25	2 50	. . . . .	. . . . .	. . . . .	\$1 75	\$2 25	3 50	4 00	2 00	1 75	1 65	3 00
1110,	105	2 25	2 25	. . . . .	. . . . .	. . . . .	2 25	\$2 25	2 25	2 25	1 15	80	80	
1111,	310	. . . . .	. . . . .	. . . . .	. . . . .	\$2 00	75	. . . . .	2 50	2 50	2 25 to 2 50	75	. . . . .	. . . . .
1112,	182	2 25 to 3 25	2 50	50 to 1 30	. . . . .	. . . . .	1 75	. . . . .	3 25	3 50 to 4 00	1 75 to 2 00	1 25 to 1 75	1 75	3 25
1113,	120	2 25	2 25	. . . . .	(\$1 75 to 1 83	. . . . .	2 25	. . . . .	. . . . .	3 60	. . . . .	85	85	. . . . .
1114, . . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	1 75	2 25	1 50	. . . . .	. . . . .	1 75
1114½, . . . . .	. . . . .	2 87½	2 75	1 75	2 75	. . . . .	1 50	. . . . .	2 25	3 64	2 25	1 60	1 75	2 50

BUILDING BRICK MANUFACTURERS—Manufacturers.

NUMBER.	Wheelers.	Carters.	Watchmen.	Engineers.	Firemen.	Blacksmiths.	Laborers.	Boys.	Machine tenders.	Machine feeders.	Press stretchers.	Carpenters.	Hackers.	Mould sanders.
1106,	{ \$1 75 to 2 25 }	{ \$1 50 to 1 75 }	\$1 67	\$2 75	\$1 50	. . . . .	{ \$1 50 to 1 75 }	{ \$1 00 to 1 35 }	\$2 50	\$2 00	\$2 50	\$2 75	\$2 25	\$1 00
1107,	{ 1 70 to 2 00 }	1 66 ² / ₃	1 50	2 50	2 20	. . . . .	. . . . .	90	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .
1108,	{ \$2 00 to 2 10 }	{ \$1 80 to 1 95 }	1 75	3 00	. . . . .	. . . . .	1 75	50	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .
1109,	2 00	1 75	1 66	3 00	. . . . .	. . . . .	1 65	75	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .
1110,	{ 1 15 to 1 20 }	2 25	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .
1111,	2 00	2 00	. . . . .	2 00	. . . . .	. . . . .	{ 1 75 to 2 00 }	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	1 25
1112,	{ 1 75 to 2 00 }	1 75	1 75	3 00	. . . . .	. . . . .	1 75	{ 50 to 66 ² / ₃} }	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .
1113,	1 15	1 25	. . . . .	1 66 ² / ₃	1 66 ² / ₃	\$1 60 ² / ₃	1 20	75	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .
1114,	1 33	1 33	. . . . .	2 50	2 00	1 75	1 33 ¹ / ₃	50	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .
1114 ¹ / ₂ ,	1 82	3 00	1 50	. . . . .	. . . . .	. . . . .	1 75	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .

* With horse.

FIRE BRICK AND TERRA COTTA MANUFACTURERS.

NUMBER.	Number of days in operation.	Moulders.	Pressers.	Pressers' helpers.	Millers.	Pan tenders.	Temperers.	Stock breakers.	Setters.	Butners.	Butners' helpers.	Off-beaters from moulds.	Off-beaters from press.
1120,	300	2 60	1 50	..	..	1 60	1 60	1 20	1 75	2 50	..	1 75	6 75
1121,	235	2 25	1 50	..	..	1 10	..	78	1 75	1 50	1 50	80	..
1122,	285	1 75	..	..	..	..	..	..	..	1 75	1 50	..	..
1123,	268	2 50	2 75	..	1 65	1 65	..	1 50	2 00	2 75	..	85	75
1124,	313	2 75	2 00	1 50	..	1 50	1 50	..	2 00	2 00	..	..	..
1125,	308	2 08½	2 08½	1 50	..	..	1 50	..	2 75	2 75	1 50	..	..
1126,	300	1 50	1 50	50	..	1 30	1 15	..	1 30	1 50	1 40	60	50
1127,	303	2 00	2 00	1 75	..	1 50	2 00	..	..	*5 00	*3 75	1 00	1 50
1128,	307	2 00	1 30	70	..	..	1 20	..	1 85	1 30	..	1 20	55
1129,	308	1 90	1 90	..	..	1 90	..	1 45	1 90	1 50	..	90	1 00
1130,	308	1 55	1 55	1 60	..	1 65	1 75	1 25	1 55	2 50	1 50	80	80
1130½,	304	..	1 40	80	..	1 50	2 00	1 30	to	to	1 50	to	to
1131,	250	1 60	1 25	..	..	1 20	1 20	1 20	1 75	1 60	..	90	90
1131½, . . . . .	..	1 37½	..	..	..	..	..	..	1 25	1 75	1 25	75	35

To 24 hours.

FI RE BRICK, &c.—Continued.

NUMBER.	Sorters.	Wheelers.	Carters.	Watchmen.	Engineers.	Firemen.	Blacksmiths.	Carpenters.	Laborers.	Boys.	Mould maker.	Block moulders.	Tile moulder.
1120,	\$1 67	. . . . .	\$2 50	. . . . .	. . . . .	\$1 75	\$1 50	. . . . .	\$2 00	. . . . .	\$1 37½
1121,	\$1 20	1 75	. . . . .	. . . . .	. . . . .	1 20	. . . . .	. . . . .	. . . . .	. . . . .
1122,	\$1 50	. . . . .	. . . . .	1 87	. . . . .	. . . . .	. . . . .	1 50	{ \$0 75 to 1 10 }	. . . . .	. . . . .	. . . . .
1123,	1 50	. . . . .	2 50	2 75	. . . . .	. . . . .	3 00	1 50	. . . . .	. . . . .	. . . . .	. . . . .
1124,	1 67	. . . . .	2 50	. . . . .	. . . . .	. . . . .	1 50	. . . . .	. . . . .	. . . . .	. . . . .
1125,	1 75	1 58½	2 00	. . . . .	. . . . .	2 50	1 50	. . . . .	. . . . .	. . . . .	. . . . .
1126,	1 15	. . . . .	1 30	2 00	. . . . .	. . . . .	. . . . .	1 10	. . . . .	. . . . .	. . . . .	. . . . .
1127,	1 50	. . . . .	2 00	2 00	\$1 50	. . . . .	1 59	1 36	1 00	. . . . .	. . . . .	. . . . .
1128,	1 20	. . . . .	1 30	1 40	. . . . .	. . . . .	. . . . .	1 10	55	. . . . .	. . . . .	. . . . .
1129,	1 40	1 35	1 50	1 55	. . . . .	. . . . .	2 25	1 35	90	. . . . .	{ \$1 75 to 2 25 }	. . . . .
1130,	\$1 25	1 25	1 35	1 50	1 80	1 25	\$1 50	{ 1 80 to 2 00 }	1 25	80	. . . . .	. . . . .	. . . . .
1130½,	1 30	. . . . .	1 69	1 90	. . . . .	. . . . .	1 90	1 30	{ 80 to 1 00 }	. . . . .	. . . . .	. . . . .
1131,	1 15	. . . . .	1 10	1 25	. . . . .	. . . . .	. . . . .	1 10	{ 70 to 90 }	. . . . .	. . . . .	. . . . .
1131½,	1 10	1 10	1 10	1 50	1 10	. . . . .	1 75	1 10	. . . . .	. . . . .	. . . . .	. . . . .

BOOT AND SHOE MANUFACTURERS.

NUMB.R.	CUTTING DEPARTMENT.					FITTING DEPARTMENT.				
	Number of days in op ration.	Grade of product.	Upper cutters.	Lining and trimming cutters.	Boys to assist.	Male operators (1st class).	Female operators (1st class)	Female operators (2d class.)	Boys to assist.	Girls to assist.
760, . . . . .	. . . . .	Medium,	{ \$2 00 to 3 00	\$1 00 to 2 00	{ \$0 50 to 83 ¹ / ₂	. . . . .	{ \$2 00 to 3 00	{ \$1 00 to 2 00	. . . . .	{ \$0 50 to 83 ¹ / ₂
755,	311	Highest,	3 00	2 00	83 ¹ / ₂	. . . . .	1 17	1 66 ² / ₃	. . . . .	66 ² / ₃
754,	285	First	3 00	1 25	50	\$1 67	2 00	83	\$0 58 ¹ / ₂	50
748,	207	1 t, 2d and 3d.	3 33 ¹ / ₃	1 50	1 00	. . . . .	1 10	1 00	. . . . .	50
747,	320	Medium and fine,	2 00	1 75	75	. . . . .	1 50	75	. . . . .	50
749,	275	Medium and fine,	2 00	1 90	50	. . . . .	1 25	1 00	. . . . .	50
752,	300	First class,	3 00	1 50	. . . . .	3 50	2 00	1 00	. . . . .	65

BOOT AND SHOE MANUFACTURERS—Continued.

TURNING DEPARTMENT.										PACKING AND SHIPPING DEPARTMENT.					
NUMBER.	NUMBER.										Boys to assist.	Shippers.	Packers.	Number of days in operation.	
	Number of days in operation.	Lasters.	Sewers.	Second lasters.	Jackers.	Heelers.	Butters.	Siding boots.	Crimping boots.						
54,	..	\$2 83½	\$3 66½	\$2 50	\$2 50	\$3 00	\$2 25	\$2 00	\$2 00	\$1 16½	..	\$3 00	\$3 00	\$1 00	Boys to assist.
48,	..	2 00	2 00	..	..	..	1 50	\$2 00	..	..	..	3 00	2 50	75	
47,	..	2 00	2 00	1 50	..	2 00	1 50	..	..	..	..	2 00	2 00	83½	
52,	*75	1 00	50	
	1 50	1 50	1 50	
	2 00	2 00	75	

*Female.

SLATE.

[illegible]

SLATE—Continued.

NUMBER.	Sand-rubbers.	Scorers.	Packers.	Marbleizers.	Varnishers.	Slate-dressers (beginners.)	Quarrymen helpers	Drillers' helpers.	Slate-roofers.	Slate-roofers' helpers.	Mantel and tile sawyers.	Labors (1st class).	Labors (2d class).	Labors (3d class).	Labors (4th class).	Labors (5th class).	Labors (6th class).	Drillers (beginners).	Block-makers (beginners).	Splitters (beginners).	Slate cutters.
716,	\$1 00	\$1 00	\$1 50	\$3 25	\$2 00							\$1 00									
717,												1 10									
714,						\$1 25	\$1 75	\$1 50				1 35	\$1 30	\$1 25	\$1 15	\$1 10	\$1 00	\$1 35	\$1 50	\$1 50	
704,							1 45					1 20									
715,												1 25									
723,												1 25									
720,												1 25									
728,									{ \$2 50 to 3 00 }	{ \$1 50 to 3 00 }	{ \$2 25 to 3 00 }										
705,												1 10									
725,												1 30									
726,												1 30									
727,												1 00									{ \$2 00 to 2 50 }
727½,												1 50	1 10								

AGRICULTURAL IMPLEMENT MANUFACTURERS.

NUMBER.	No. of days in operation.	Machinists.	Iron workers.	Wood workers.	Sawyers.	Mortisers.	Painters.	Engineers.	Foundrymen.	Apprentices.	Laborers.	Foremen.	Polishers.	Finishers.	Trip-hammerman.	Forgers.	Engineer.	Firemen.	Pressman.	Baker.	Teamster.	Blacksmiths.
574,	299	\$ 1 83	\$1 70	\$1 90	..	..	\$1 80	\$1 80	\$2 25	\$0 80	\$1 05	\$3 50	\$2 25	\$1 50	\$3 50	\$2 25	\$2 50	..	..	..	..	..
378,	300	..	..	1 75	..	..	..	..	..	..	1 25	..	..	..	..	..	..	..	..	..	..	..
535,	313	..	..	..	..	..	..	..	..	..	1 25	..	..	..	..	..	..	..	..	..	..	..
565,	304	1 50	1 50	1 50	..	..	2 00	1 50	..	..	1 25	1 75	1 40	1 75	..	..	..	..	..	..	..	..
568,	300	..	..	2 33½	..	..	..	2 50	..	..	1 58½	..	..	..	..	..	..	..	..	..	..	..
570,	295	2 01	1 30	1 85	..	1 55	1 45	1 90	..	..	1 00	..	..	..	..	..	..	..	..	..	..	..
578,	286	2 75	2 75	2 50	..	..	2 50	2 75	..	..	1 75	..	..	..	..	..	..	..	..	..	..	..
..	..	1 50	1 50	1 50	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
577,	..	to	to	to	1 50	..	1 25	1 90	..	..	1 25	..	..	..	..	..	..	..	..	..	..	..
579,	579	2 50	2 15	1 80	..	..	2 33½	2 00	..	..	1 50	..	2 20	..	..	..	..	..	..	..	..	..

PAPER MANUFACTURERS.

NUMBER.	No. of days in operation.	Rag sorters.	Paper sorters.	Rag cutters.	Paper cutters.	Helpers.	Bleachers.	Machine tenders.	Back tender on machine.	Loft men.	Inspectors.	Trimmers.	Callender men.	Finishers.	Callender girls.	Ruler girls.	Pulp grinders.	Tub hands.	Beatermen.	Helpers.	Rag engineers.
774	307,	..	..	..	..	..	\$1 50	\$2 50	\$1 25	..	..	..	..	\$1 75	..	..	\$1 25	..	\$1 50	\$1 25	..
787	275,	..	..	\$1 25	..	..	1 10	2 00	1 25	..	..	..	..	..	..	..	..	..	..	..	\$1 65
779	232,	\$1 00	\$1 10	1 83	..	\$1 33	1 66	3 00	1 83	..	..	..	\$2 00	3 60	{ 0 75 to 1 00 }	..	..	..	2 33	..	2 00
771	..	1 50	..	..	..	1 25	1 35	{ 2 00 to 2 50 }	1 25	..	..	\$1 25	..	1 50	..	..	..	..	..	..	..
736	..	66½	..	..	..	..	..	2 16½	1 83½	..	..	..	..	2 75	1 50	..	..	..	..	..	1 83½
794	238,	85	85	2 00	2 00	1 35	2 00	2 50	1 45	..	..	..	1 80	2 00	..	40 85	1 62½	\$1 63	2 25	..	2 00
782	278,	..	..	1 50	1 00	..	..	2 75	1 62½	..	..	..	1 83½	2 00	..	..	..	..	2 50	..	2 00
782A	298,	..	..	1 83½	..	..	..	3 00	1 66½	..	..	..	..	..	..	..	..	..	..	..	1 66½
795	310,	50	..	1 25	50	..	1 25	{ 2 00 to 2 50 }	1 35	..	..	..	..	..	..	..	..	..	1 50	1 50	1 50
767	285,	..	..	1 20	..	1 20	..	2 25	1 20	..	..	..	..	..	..	..	..	..	1 60	..	..
774	307,	..	..	..	..	..	1 50	2 50	1 25	..	..	..	..	{ 1 50 to 1 75 }	80	60	1 25	..	1 50	1 25	..
797	300,	81½	..	..	..	..	..	2 50	1 83½	..	..	..	..	..	..	1 00	2 00	..	..	..	..
798	292,	{ 80 to 1 00 }	..	1 20	..	..	1 40	2 50	1 35	\$1 25	\$1 20	1 60	1 75	{ 2 50 to 1 25 }	80	60	..	1 20	1 75	1 20	1 35
796	300,	75	75	2 00	2 00	1 50	1 75	2 75	1 50	..	..	..	2 50	2 50	1 00	..	..	..	..	1 75	2 00
792	195,	50	..	1 25	..	1 00	..	1 75	1 10	..	..	..	..	..	..	70	..	..	..	..	..
799	250,	..	1 16½	1 60	50	..	..	..	..	..	..	..	..	..	..	..	..	..	1 66½	..	..

PAPER MANUFACTURERS—Continued.

[illegible]

TANNERIES, MOROCCO MANUFACTURERS.

NUMBER.	Number of days in operation.	Tanners.	Rollers and spongers.	Table-hand scourers.	Curriers.	Splitters.	Shavers.	Blackers.	Finishers.	Colorsmen.	Engineers.	Firemen.	Teamsters.	Bark-grinders.	Beam-hands.	Yard-hands.	Sewers (females).	Laborsers.
615,	308	\$2 16	..	..	..	..	\$3 50	\$2 00	\$1 66	\$2 16	\$2 66	..	..	..	\$2 16 1 50 to 2 00	..	\$1 50	..
583,	210	3 00	\$1 50	..	..	..	..	..	..	..	\$2 20	\$1 40	\$1 35	\$0 96	..	\$1 45	..	\$1 40
624,	300	2 25	..	..	..	..	3 50	..	3 00	2 25	2 33	..	..	..	2 17 1 25	..	..	..
608,	250	1 35	1 35 1 30 to 1 40	..	..	..	..	..	..	..	..	..	..	..	..	1 10	..	..
606	313	..	..	..	..	..	..	..	..	..	1 50	1 50	1 25	1 25	1 30	1 30	..	1 25
591,	300	4 00	1 35	..	..	..	..	..	..	..	1 50	1 50	1 40	1 25	1 75	1 25	..	1 25
637,	300	2 50	1 35	..	..	..	..	..	..	..	1 35	1 35	1 25	1 25	1 50 1 50 to 1 80	1 35	..	1 25
639,	313	..	1 65	..	..	..	..	..	..	..	2 00	..	1 50	1 45	1 80	1 80	..	1 35
603,	312	..	1 50	..	..	..	..	..	..	..	1 50	..	1 00	1 30	1 80	1 30	..	1 00
638,	313	2 00	1 25	..	..	..	..	..	..	..	..	..	1 35	1 00	1 25	1 05	..	1 25
582,	312	2 50	1 50	..	..	..	..	..	..	..	1 50	1 50	1 50	1 25	2 00	1 50	..	1 25
634,	300	3 00	..	..	2 00	3 00	2 50	1 50	1 50	..	2 00	1 50	1 50	1 25	1 68 1 60	1 50	..	1 20
596,	300	..	..	..	..	..	..	..	..	..	1 50	1 33 1 33	1 50	1 75	1 60	1 33 1 33	..	1 50
669,	300	2 00	..	..	..	..	2 00	..	..	2 00	2 33 1 68	..	..	2 16 93	2 00	1 66 1 00	..	..
616,	309	2 00	1 00	\$0 93	..	..	3 00	..	2 00	2 50	1 16 2 25	..	..	1 50	1 00	1 00	..	93
616,	360	2 06	..	..	..	..	2 50	1 75	1 75	..	2 25	1 50	1 25	1 10	2 00	1 40	..	1 25
678,	313	2 00	..	..	..	..	..	..	..	..	1 50	1 25	1 25	1 10	1 35	1 35	..	1 15
633,	312	3 20	1 25	..	..	..	..	..	..	..	1 50	..	1 25	1 25	1 33 1 50	1 33 1 33	..	1 00
695,	300	..	1 00 1 50 to 2 00	..	..	..	..	..	..	..	..	..	1 30	1 00	1 50 to 1 60	1 20	..	1 00
591,	312	3 00	..	..	..	..	..	..	..	..	..	..	1 25	1 50	1 60	1 60	..	1 25
677,	308	2 50	2 00	..	..	..	..	..	..	..	2 00	..	1 25	1 50	1 60	1 60	..	1 25
588,	310	2 13 1 50	..	1 50	2 50 to 2 83	..	..	..	..	..	..	1 75	..	1 25	1 50	2 50	..	1 25

[illegible]

Tanneries, Etc.—Continued.

NUMBER.	Carpenters.	Boys.	Liquor changers.	Leach pitchers.	Left hands.	Scrubbers.	Choresmen.	Blacksmith.	Fleishers.	Stop hands.	Stakers.	Seasoners.	Putters-out.	Pebblers.	Butfers.	Sorters.	Watchmen.	Rollers.	Whiteners.	Setlers.	Softeners.	General work.	Number.	Carpenters.
615.		\$0 67	\$1 50	\$1 75	\$1 50	\$1 50	\$1 50																686	\$1 50
583.	\$1 75																						697	1 75
624.		67						\$1 75															199	2 00
591.	1 75			1 25					\$1 75	\$1 50													677	1 40
603.	1 50																						588	2 00
634.	2 50																						610	2 00
596.	1 50	50			1 33½																		612	2 00
616.		1 00									\$1 83½	\$1 75	\$1 34½	\$1 50									604	2 00
606.	1 50																							
673.	2 00																							
683.	2 25					1 15	1 15										\$1 50							
695.	1 50																							
591.	1 25					1 25																		
589.	2 00																							
618.																								
583.	1 75																1 83½	1 50						
631.	1 75																							
638.	1 83½																							
694.	2 00																		\$2 16½	1 75				
534.	2 00																							
1082.		1 00																						
697.	2 20																							
605.	1 50		\$1 25		1 20			1 50																
700.	2 00																							
687.	2 00																							
595.	2 00		1 35	1 30	1 25	1 25																		
611.	1 60																							
690.	1 50	1 12½	1 37½																					
	to																							
674.	2 50																							
689.	2 50	33½															2 50							
594.	2 00																							
594.	1 54			1 50		1 15																		
662.	2 50																							
	1 75																							
701.	to																							
	3 00																							
672.											1 99		1 62									\$1 68	\$2 19	

MANUFACTURERS OF LUMBER

NUMBER.	Number of days in operation.	Sawyers.	Setters.	Lath sawyers and blinders.	Log cutters.	Engineers.	Firemen.	Laborers.	Boys.	Editors.	Filers.	Teamsters.	Band sawyer.	Circular sawyer.
741,	26	\$3 00 { 2 50 to 5 00 }	\$2 25	\$2 00	1 75	\$3 00	\$2 00	\$1 50	\$1 00	\$2 00	\$4 00	. . . . .	. . . . .	. . . . .
729,	180		2 50	. . . . .	2 25	3 00	2 50	2 00	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .
641, . . . . .	. . . . .	3 50	2 50	2 25	1 75	2 50	. . . . .	{ 1 50 to 1 75 }	{ 75 to 1 00 }	2 50	2 50	. . . . .	. . . . .	. . . . .
628,	197	2 50	2 00	1 50	. . . . .	2 50	1 50	1 50	{ 75 to 1 25 }	1 75	3 50	. . . . .	. . . . .	. . . . .
661,	200	2 50	1 75	. . . . .	. . . . .	1 50	. . . . .	{ 1 25 to 1 50 }	. . . . .	1 75	1 75	. . . . .	. . . . .	. . . . .
643,	169	{ 2 25 to 2 40 }	2 75	2 25	1 50	2 50	1 75	1 50	1 00	2 00	2 75	. . . . .	. . . . .	. . . . .
659,	170	2 50	1 70	. . . . .	1 50	1 50	. . . . .	{ 1 25 to 1 40 }	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .
633,	225	2 50	2 00	. . . . .	. . . . .	2 50	. . . . .	1 60	. . . . .	1 75	. . . . .	. . . . .	. . . . .	. . . . .
630,	300	2 50	2 00	. . . . .	. . . . .	3 00	. . . . .	{ 1 60 to 1 75 }	. . . . .	1 75	. . . . .	. . . . .	. . . . .	. . . . .
660,	250	2 50	2 25	. . . . .	1 60	3 00	. . . . .	{ 1 60 to 1 80 }	. . . . .	1 75	3 00	\$1 75	. . . . .	. . . . .
633, . . . . .	. . . . .	2 50	2 25	. . . . .	1 60	1 75	. . . . .	{ 1 60 to 1 80 }	. . . . .	1 75	3 00	. . . . .	. . . . .	. . . . .
663,	230	2 50	2 50	2 50	{ 1 00 to 1 50 }	3 00	1 75	{ 1 50 to 2 50 }	{ 1 00 to 1 25 }	2 00	3 50	. . . . .	. . . . .	. . . . .
639,	300	{ 2 50 to 4 00 }	{ 3 00 to 4 00 }	1 75	1 50	3 00	1 75	{ 1 30 to 1 50 }	{ 75 to 1 20 }	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .
742,	180	2 10	3 00	2 50	. . . . .	3 50	1 65	1 60	80	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .
645,	300	2 50	1 60	1 50	1 50	2 50	2 00	1 35	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .

MANUFACTURERS OF LUMBER--Continued.

NUMBER.	Number of days in operation.	Sawyers.	Setters.	Lath sawyers and binders.	Log cutters.	Engineers.	Firemen.	Labors.	Boys.	Edgers.	Fillers.	Teamsters.	Band sawyer.	Circular sawyer.
626,	...	2 00	1 50	...	1 50	2 50	...	1 50	50	...	...	...	...	...
744,	...	2 00	1 65	1 50	1 50	...	1 75	1 50	1 00	2 00	3 00	1 50	...	...
735,	234	3 50	2 75	1 50	1 45	1 75	...	1 40	1 00	2 75	3 00	...	...	...
627,	230	2 50	2 00	1 50	1 00	2 25	2 25	1 50	1 10	1 50	2 50	...	...	...
737,	180	2 25	2 00	2 25 to 2 75	1 75	3 50	2 00	1 75	75 to 1 25	2 25	4 00 to 4 50	...	\$3 00	\$3 50
662,	130	3 00	2 00	...	...	...	...	...	...	2 00	2 00	...	...	...

PLANING MILLS.

NUMBER.	Number of days in operation.	Draughtsmen.	Machine hands.	Machine hands' assistants.	Sawyers.	Sawyers.	Setters and filers.	Boxmakers.	Boxmakers' assistants.	Painters.	Carpenters.	Machinists.	Engineers.
741,	310	\$3 00	\$2 00	\$0 90	..	..	\$1 75	\$1 30	..	\$1 25	\$2 00	..	..
742	304	3 50	1 50	1 50	..	..	..	..	..	..	1 75	\$2 50	\$1 50
743	300	..	2 75	..	..	..	..	..	..	..	2 50	..	1 83
649,	260	..	2 00	..	..	..	..	..	..	..	2 00	..	..
733,	300	..	2 25	..	..	..	..	..	..	..	1 80	..	2 00
735,	300	2 50	1 75	1 30	..	..	1 75	..	..	1 85	2 25	..	..
735,	300	2 75	2 00	1 50	\$1 40	..	1 50	..	..	..	2 50	..	1 50
734,	300	3 75	2 66	2 00	2 66	2 75	..	3 50	2 25	..	2 75	..	2 66
741,	290	..	3 15	1 50	..	..	..	..	..	..	3 00	2 75	3 00
741,	..	..	2 25	2 00	..	..	..	..	..	..	to	..	..
741,	248	4 00	3 50	2 00	2 50	2 50	..	2 75	..	..	3 00	..	3 00
744,	285	3 00	3 00	1 35	1 75	1 75	..	..	1 25	..	2 75	..	..
745,	250	..	1 75	..	..	..	..	..	..	..	1 75	..	1 50
748,	200	..	2 65	..	2 00	..	..	..	..	..	2 65	..	2 25
733,	307	..	2 50	75	2 50	..	..	..	..	..	2 40	..	2 00
741,	307	..	2 56	..	..	..	..	..	..	..	2 50	..	2 03

Planing Mills—Continued.

NUMBER.	Firemen.	Laborers.	Laborers.	Boys.	Teamsters.	Lumber inspectors.	Lumber counters.	Salesman.	Book-keeper.	Assistant book-keeper.	Watchman.	Korean.
741.	\$1 50	\$1 35		\$0 70	\$1 35							
742.	1 50	1 15		55								
746.		1 66 ² / ₃		1 00		\$2 00	\$2 00	\$5 00	\$3 00	\$1 50		
649.		1 35			1 35							
733.		1 50		{ 50 to 1 00								
735.		1 20										
735 ¹ / ₂ .		1 50	\$1 25	1 00							\$1 92	\$3 00
734.		1 50		50	1 66							
		{ 1 25 to 1 66 ² / ₃		{ 1 00 to 1 25	1 83 ¹ / ₂ to 2 00							
741.												
741 ¹ / ₂ .	2 50			{ 75 60 to 1 00								
744.	1 75	1 35										
745.												
746.	2 00	1 75										
733 ¹ / ₂ .	2 00	1 65			1 85							
741 ¹ / ₂ .		1 50		92								

WAGON AND CARRIAGE MANUFACTURERS.

NUMBER.	Number of days in operation.	Moulders.	Laborers.	Hammer-men.	Blacksmiths.	Carpenters.	Heaters.	Lathe-men.	Putter-up.	Polishers.	Machinists.	Boys.	Engineer.	Firemen.	Watchmen.	Apprentices.
88,	300	\$2 40	{ \$1 25 to 1 50 }	\$2 60	\$2 35	\$2 00	\$1 50	\$1 50	\$1 37½	\$1 37½	\$2 25	\$1 12½	\$2 75	\$1 62½	\$1 62½	\$1 00
310,	300½	.	.	.	3 00	.	.	.	.	.	.	.	.	.	.	.
301,	310	.	.	.	2 75	.	.	.	1 75	.	.	.	.	.	.	.
302,	309	.	.	.	{ 2 50 to 3 00 }	.	.	.	.	.	.	.	.	.	.	.
309,	300	.	.	.	{ 3 00 to 2 75 }	.	.	.	.	.	2 25	.	.	.	.	.
310,	301	.	.	.	2 75	.	.	.	.	.	.	.	.	.	.	.

NUMBER.	Packers.	Foreman.	Body-makers.	Wheel-makers.	Painters.	Timmers.	Porters.	Blacksmiths' helpers.	Wood-workers.	Finishers.	Sawyers.	Watchman.	Teamsters.	Engineers.	Firemen.
88,	\$1 62½	\$3 23	\$2 66	\$2 50	\$2 50	\$2 66	\$1 67	\$1 50	\$2 27	.	.	.	.	.	.
310,	2 25	2 25	1 75	3 00	.	1 33	2 50	.	.	.	.	.	.
301,	{ 2 25 to 3 00 }	to	1 50	2 00	.	.	.	{ \$2 00 to 2 25 }	.	.	.	.	.
302,	3 00	3 00	2 50	2 50	.	1 50	.	.	.	.	.	.	.
309,	3 00	2 00	2 25	{ 1 50 to 2 50 }	.	.	.	.	.	\$2 00	\$2 00	\$2 00	\$2 25	\$1 75
310,	2 50	2 75	.	.	2 50	.	.	.	.	.	.

LIQUORS—Malt and Distilled.

NUMBER.	No. of days in operation in 1888.	Nature of products.	Malsters.	Distillers.	Brewers.	Botlers.	Mil lers.	Warch usemen.	Kitemen.	Coopers.
326,	314	Lager beer brewers and malsters,	\$2 00	\$2 16 ² / ₃	\$3 00	\$1 50	. . . . .	. . . . .	\$3 00	. . . . .
324,	312	Porter, ale and soft drinks,	2 25	1 90	1 50	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .
329,	339	Malsters,	2 00	. . . . .	. . . . .	. . . . .	\$2 00	. . . . .	. . . . .	. . . . .
331,	180	Malt, . . . . .	. . . . .	. . . . .	2 31	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .
342,	307	Lager beer, . . . . .	. . . . .	. . . . .	2 63 ² / ₃	. . . . .	2 83 ¹ / ₃	. . . . .	2 66 ² / ₃	\$2 31
323,	313	Lager beer, ale, etc,	2 16	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .
328 ¹ / ₂ ,	300	Whiskey and malt,	1 50	3 33 ¹ / ₃	2 33 ¹ / ₃	. . . . .	2 33 ¹ / ₃	$\left. \begin{array}{l} 1\ 66\frac{1}{2} \\ t. \\ 2\ 50 \end{array} \right\}$	. . . . .	. . . . .
344,	312	Lager beer,	2 25	$\left. \begin{array}{l} 2\ 00 \\ 10 \\ 3\ 25 \end{array} \right\}$	2 25	2 00	. . . . .	2 50	2 25	2 50
344 ¹ / ₂ ,	253	Whiskey, . . . . .	. . . . .	. . . . .	. . . . .	. . . . .	2 00	2 00	2 00	. . . . .
329,	313	Lager beer, porter and ale, . . . . .	. . . . .	. . . . .	2 50	. . . . .	. . . . .	. . . . .	2 50	. . . . .
348,	313	Lager beer, ale, etc, . . . . .	. . . . .	. . . . .	2 10	. . . . .	. . . . .	2 50	1 67	2 00
327,	312	Lager beer, ale and porter, . . . . .	. . . . .	. . . . .	2 50	. . . . .	2 66 ² / ₃	. . . . .	2 50	2 16 ² / ₃
338,	313	Lager beer,	2 00	. . . . .	2 50	. . . . .	2 33 ² / ₃	. . . . .	2 00	2 33 ² / ₃
321,	313	Whiskey, . . . . .	. . . . .	2 00	. . . . .	. . . . .	. . . . .	. . . . .	1 48	1 50
320,	365	Lager beer, . . . . .	. . . . .	. . . . .	1 75	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .
346,	313	Lager beer,	1 50	. . . . .	1 85	. . . . .	. . . . .	. . . . .	1 50	2 00
330,	313	Lager beer, porter and ale,	2 50	. . . . .	3 00	. . . . .	2 50	2 00	2 50	2 50
347,	313	Lager beer,	1 50	. . . . .	$\left. \begin{array}{l} 1\ 50 \\ 10 \\ 2\ 00 \end{array} \right\}$	. . . . .	. . . . .	. . . . .	1 90	1 90
347 ¹ / ₂ ,	270	Whiskey,	1 54	4 24	1 92	1 54	2 77	2 20	2 31	2 62 ¹ / ₂
322,	313	. . . . .	1 92	. . . . .	. . . . .	$\left. \begin{array}{l} 50 \\ t. \\ 1\ 50 \end{array} \right\}$	. . . . .	1 92	. . . . .	. . . . .
334,	336	. . . . .	. . . . .	. . . . .	2 75	. . . . .	2 50	2 00	. . . . .	2 50
335,	314	Lager beer and porter, . . . . .	. . . . .	. . . . .	2 50	. . . . .	3 00	. . . . .	2 00	2 50

GLASS MANUFACTURERS—Window.

NUMBER.	Number of days in operation.	Blowers of double strength.	Blowers of single strength.	Gatherers	Gatherers of double strength.	Gatherers of single strength.	Flateners.	Teazers.	Master teazers.	Master teazers' helpers.	Leer tenders.	Leer emptiers.	Grinders.	Engravers.
840, . . . . .	. . . . .	. . . . .	{ \$4 00 to 6 00 }	. . . . .	. . . . .	. . . . .	\$5 00	\$2 00	\$3 46	\$2 00	\$2 00	\$1 50	. . . . .	. . . . .
833,	220	10 00	6 00	. . . . .	\$5 50	\$3 90	6 50	2 10	3 70	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .
837, . . . . .	. . . . .	7 42	5 14	. . . . .	4 03	3 15	{ 5 14 to 5 57 }	2 10	3 63	1 89	2 03	. . . . .	\$1 59	{ 2 33 }
830,	228	{ 9 00 to 10 00 }	6 50	\$5 75 to 6 00	4 90 to 7 00	4 00 to 8 40	6 80 to 7 60	1 80	3 00	. . . . .	1 89	. . . . .	. . . . .	. . . . .
812,	221	8 00	5 00	4 50	3 25	2 53	6 00	1 92	4 16	. . . . .	1 83	. . . . .	. . . . .	. . . . .
843,	182	9 42	4 25	. . . . .	4 75	. . . . .	4 60	1 33	3 96	. . . . .	{ 1 73 to 2 10 }	. . . . .	. . . . .	. . . . .
820,	220	10 00	5 83	. . . . .	5 53	3 66	. . . . .	2 05	4 00	2 00	. . . . .	. . . . .	. . . . .	. . . . .
806,	254	{ 8 00 to 14 00 }	6 00	. . . . .	{ 4 00 to 7 00 }	3 50 to 4 25	6 00 to 7 00	2 00 to 4 00	4 00 to 4 25	2 00	{ 1 50 to 2 00 }	{ 1 50 to 2 00 }	. . . . .	. . . . .

GLASS MANUFACTURERS—Continued.

NUMBER.	Layers-in.	Layers-out.	Fillers-in.	Cutters.	Cutters' assistants.	Pot makers.	Pot makers' assist-ants.	Pot heaters.	Pot shell pickers.	Batch mixers.	Batch wheelers.	Clay wheelers.	Clay trammers.	Lime sifters.	Sand sifters.
840, . . . . .	. . . . .	. . . . .	\$2 00	{ \$3 50 to 4 00 }	. . . . .	\$3 85	\$1 50	. . . . .	\$2 00	\$2 00	\$1 50	\$1 50	\$1 50	. . . . .	. . . . .
833,	\$2 08	\$1 93	. . . . .	4 50	. . . . .	3 70	1 50	. . . . .	1 75	2 17	1 90	. . . . .	1 50	. . . . .	. . . . .
837,	1 82	. . . . .	. . . . .	4 55	. . . . .	6 06	1 66½	\$2 00	2 22	2 17	1 89	1 95	1 50	\$1 50	\$1 50
830, . . . . .	. . . . .	. . . . .	. . . . .	{ 6 47 to 6 76 }	{ 5 71	3 84	1 66	. . . . .	1 33	2 17	1 89	. . . . .	1 66	. . . . .	1 92
812,	2 25	2 25	1 90	5 15	. . . . .	4 00	1 50	. . . . .	. . . . .	3 33	1 90	. . . . .	1 50	. . . . .	. . . . .
843, . . . . .	. . . . .	. . . . .	. . . . .	3 96	. . . . .	2 96	1 25	. . . . .	. . . . .	1 54	. . . . .	. . . . .	. . . . .	1 25	. . . . .
820,	1 73	1 73	2 17	5 00	. . . . .	3 83	1 67	1 50	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	2 00
806,	2 00	2 00	2 00	{ 5 00 to 7 00 }	2 00 to 3 50	3 00 to 4 00	1 50 to 2 00 }	1 50	1 50	2 00	2 00	1 50	1 50	2 00	2 00

GLASS MANUFACTURERS—Continued.

NUMBER	Mould cleaners and greasers.	Mould boys.	Snapping-up boys.	Carrying-up boys.	Laying-up boys.	Gathering-up boys.	Roller boys.	Packers.	Packers' assistants.	Engineers.	Blacksmiths.	Teamster.	Watchmen.	Laborers.	(Glass washers.
840,	\$2 06½	\$0 66½	{ \$0 50 to 83½ }	\$0 66½	\$1 00	\$1 00	\$0 66½	\$2 00	\$1 50	\$5 07	. . . . .	\$2 90	\$1 75	\$1 50	. . . . .
833,	1 56	6 00	. . . . .	. . . . .	\$2 62	. . . . .	1 60	1 35	\$1 83
837,	1 08	4 23	. . . . .	. . . . .	2 50	. . . . .	1 95	1 50	. . . . .
830,	{ 80 to 1 25 }	1 44	{ 2 05 to 2 33 }	2 38	1 20	. . . . .	. . . . .	. . . . .	4 16	{ 2 16 to 2 50 }	1 66	1 50	. . . . .
812,	1 20	4 00	. . . . .	. . . . .	3 33½	2 50	1 37	1 50	. . . . .
843,	96	1 79	. . . . .	. . . . .	1 66½	1 50	1 00	1 25	. . . . .
820,	{ 1 00 to 2 00 }	. . . . .	. . . . .	. . . . .	1 33	1 16	. . . . .	. . . . .	3 33	. . . . .	1 43	1 50	. . . . .
806,	{ 80 to 1 00 }	80 to 1 50	80 to 1 50	. . . . .	{ 80 to 1 50 }	2 00 to 2 25	1 35 to 1 50	. . . . .	{ 2 00 to 2 50 }	1 35	1 25	1 35	. . . . .

GLASS MANUFACTURERS—Plate Glass.

NUMBER.	Number of days in operation.		Teazers.	Master teazers.	Master bl-ers.	Boss grinders.	Grinders.	Helpers.	Chief inspector.	Handlers.	Finishers.	Finishers' as s.	1st layers.	2d layers.	3d layers.	4th & 5th layers.	Female employ-ees.	Labor bosses.	Cutters, 1st.	Cutters, 2d.	Cutters, 3d.	Chief pot-mak-ers.	Assistants.	She l-pickers.
802,	280		..	\$3 00	\$2 50	\$3 33½	\$2 50	\$2 25	\$4 00	\$2 25	\$3 50	\$1 75	\$2 60	\$2 40	\$2 00	\$1 75	\$1 10	\$2 50	\$2 75	\$2 50	\$2 25	\$3 85	{ \$1 50 to 2 75 }	\$1 50

Plate Glass—Continued.

NUMBER.	Chief batch mix-ers.	Batch mixers.	Clay trampers.	Sand sifters.	Bench minders' boys.	Packers, 1st.	Packers, 2d.	Chief engineer.	Engineer.	Blacksmiths.	Assistants.	Teamsters.	Watchmen.	Laborers.	Foreman.	Foreman's as-sistant.	Rollers and stainers.	Fillers-in.	Furnace cleaners.	Glass carriers.	Rough plate cut-ers.	Inspectors.	
802,	\$2 00	\$1 75	\$1 50	\$1 50	\$1 00	\$2 50	\$1 75	\$4 85	\$3 00	\$3 00	\$1 75	\$1 50	\$1 50	\$1 25	\$4 75	\$2 50	\$2 50	\$2 00	\$2 25	\$2 25	\$2 25	\$3 00	\$2 75

Out Glass, Electric Light and Gas Globes.

NUMBER.	Number of days in operation.	Gaffers.	Leer tenders.	Leer emptiers.	Grinders.	Selectors.	Servitors.	Hold-post boys.	Decorators.	Cutters.	Mould makers.	Batch mixers.	Batch wheelers.	Mould cleaners, etc.	Carry in g-up boys.	Gathering boys.	Packers.	Engineers.	Blacksmiths.	Teamsters.	Watchmen.	Laborers.
		\$5 50	\$7 00	\$2 00	\$2 00	\$2 50	\$4 50	\$1 00	\$3 00	\$3 00	\$3 00	\$3 50	\$3 00	\$1 50	\$1 25	\$0 90	\$3 00	\$2 50	\$2 50	\$2 50	\$1 67	\$1 50	$1 25
884,	265																					

Drug and Perfumery Ware.

NUMBER.	In operation.	Number of days	Blowers.	Gaffers.	Teazers.	Master teasers.	Master helpers.	Leer tenders.	Grinders.	Pot makers.	Batch mixers.	Clay trampers.	Mould greasers, etc.	Mould boys.	Snapping up boys.	Carry in g-in boys.	Packers.	Assistants.	Engineers.	Blacksmiths.	Teamsters.	Laborers.
808,	243	\$5 00	\$5 00	\$1 45	\$1 75	\$1 25	\$1 60	\$1 50	\$2 00	\$1 60	\$1 25	\$1 25	\$0 50	\$0 46	\$0 50	\$1 60	\$1 60	\$2 40	\$2 33	\$1 65	\$1 50

GLASS MANUFACTURERS—FLINT.

Number.	Number of days in operation.	NATURE OF PRODUCT.	Blowers.	Gatherers.	Pressers (1st class).	Pressers (2d class).	Pressers (3d class.)	Gaffers.	Teazers.	Leer-tenders.	Leer-emptiers.	Grinders.	Roughers.	Stopper-grinders.	Engravers.	Selectors.
823, . . .	256	Flint glass bottles,	{ \$2 00 to 6 00 }	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	{ \$1 50 to 2 50 2 00
822, . . .	270	Lamp chimneys, . . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	\$4 00	. . . . .	\$2 00	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .
827, . . .	250	Table glassware, . . . . .	. . . . .	. . . . .	\$5 00	. . . . .	. . . . .	{ 4 10 to 5 00 }	. . . . .	1 75	. . . . .	\$4 50	. . . . .	. . . . .	. . . . .	. . . . .
821, . . .	260	Lamp chimneys, shades, lamps, etc.,	4 50	\$3 00	4 30	. . . . .	. . . . .	. . . . .	. . . . .	1 66 ² / ₃	\$0 66 ² / ₃	1 66 ² / ₃	. . . . .	. . . . .	. . . . .	2 50
831, . . .	320	Lamp chimneys,	4 50	2 30	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	2 00	. . . . .	1 25	. . . . .	\$2 00	\$4 00	2 50
815, . . .	303	Tab e ware, . . . . .	. . . . .	. . . . .	\$5 00	\$4 00	\$3 50	. . . . .	. . . . .	2 00	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	1 00
825, . . .	274	Lamp chimneys,	3 50	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	1 75	1 66 ² / ₃	1 33 ¹ / ₃	. . . . .	. . . . .	. . . . .	. . . . .
822, . . .	257	Lamp chimneys,	4 50	2 50	4 00	. . . . .	. . . . .	. . . . .	. . . . .	2 00	. . . . .	. . . . .	. . . . .	1 25	2 50	2 25
824, . . .	145	Table ware and lamps,	4 00	. . . . .	5 00	4 00	3 30	. . . . .	. . . . .	2 50	1 70	1 50	. . . . .	. . . . .	3 35	66 ² / ₃
870, . . .	200	Lamp chimneys and flint ware,	3 00	2 00	. . . . .	. . . . .	. . . . .	4 50	\$2 67	1 50	1 00	2 00	\$1 50	. . . . .	. . . . .	{ 1 50 to 3 00
817, . . .	174	Table ware, . . . . .	. . . . .	. . . . .	5 00	4 00	3 50	. . . . .	. . . . .	2 17	1 66	. . . . .	. . . . .	. . . . .	3 50	. . . . .

GLASS—Continued.

NUMBER.	Handlers.	Finishers.	Foot-finishers.	Filler-ins.	Cutters	Mould-makers.	Pot-makers.	Pot-makers' assistants.	Pot shell-pickers.	Batch-mixers.	Batch-wheelers.	Clay-trampers.	Crimpers.	Lime-sifters.	Sand-sifters.	Moulded-cleavers, greasers, etc.	Mould-boys.	Room manager.	Snapping-up boys.	Carrying-up boys.	Laying-up boys.	Gathering boys.
823.	..	..	..	..	..	..	..	..	..	\$1 75	..	..	\$1 00	..	..	\$1 50	\$0 66½	..	\$0 60	\$0 45	\$0 75	..
822.	..	..	..	..	..	..	..	..	..	2 50	..	..	..	..	..	..	..	..	..	..	..	..
827.	\$5 00	\$3 75	..	..	..	\$4 00	..	..	..	1 75	\$1 50	..	..	..	..	1 00	..	\$2 00	1 20	80	..	2 70
82.	..	1 08	..	..	..	..	\$2 83½	..	\$1 50	2 00	2 00	\$1 50	..	..	..	1 25	90	..	1 00	80	..	2 30
831.	1 00	..	..	..	..	..	..	..	..	2 00	..	..	..	..	\$1 50	75	..	..	1 00	1 00	..	..
815.	2 25	{ 1 60 to 2 50 }	..	..	..	3 50	..	..	..	2 50	..	..	..	\$2 00	..	2 25	1 10	..	1 10	80	..	1 25
823.	..	..	..	..	..	..	..	..	..	2 00	..	..	..	..	..	50	..	..	41	80	1 20	2 25
822.	..	..	..	..	..	3 50	..	..	..	2 50	..	..	..	..	..	1 50	..	..	1 00	..	..	..
824.	5 00	3 40	2 75	2 00	\$2 50	3 00	..	..	..	1 65	..	..	..	..	..	2 00	50	..	1 10	80	..	2 30
810.	..	..	..	1 25	2 33	..	3 00	..	..	1 67	..	1 50	..	..	..	..	..	..	67	..	..	..
817.	5 00	{ 1 50 to 2 50 }	1 33	..	..	{ 3 33 to 3 75 }	75 to 2 50	..	..	2 00	1 88	..	..	1 50	..	{ 67 to 1 50 }	1 10	..	1 10	40	..	{ 2 30 to 3 20 }

GLASS MANUFACTURERS—Green Glass and Hollow Ware.

NUMBER.	No. of days in operation.	Blowers.	Gatherers.	Teazers.	Master-teazers.	Fillers in.	Mould-makers.	Pot-makers.	Assistant pot-makers.	Shell-pickers.	Batch mixers.	Batch wheelers.	Clay trampers.	Mould cleaners and greasers.	Snapping-up boys.
842,	250	\$5 00	\$1 00	\$2 00	\$3 00	\$1 35	\$2 00	\$2 50	\$1 35	\$1 35	\$1 50	\$1 50	\$1 35	\$1 50	\$0 50
807,	221	3 90	1 23	.	.	.	.	3 00	1 50	.	1 83	.	.	.	41
820,	237	5 13	.	1 67	4 00	.	.	4 67	.	.	2 50	.	.	.	.

GLASS MANUFACTURERS—Continued.

NUMBER.	Carrying-up boys.	Laying-up boys.	Packers.	Engineers.	Blacksmiths.	Blacksmiths help-ers.	Teamsters.	Labors.	Mould boys.	Shears.	Watchman.	Box-makers.	Oven-emptiers.	Grinders girls.	Cutters.
842	\$0 50	\$1 00	\$1 50	\$2 50	\$2 00	\$1 25	\$1 50	\$1 35	\$0 50	.	.	.	.	.	.
807,	41	1 00	2 00	1 86	3 00	.	1 76	1 25	.	\$2 19	\$1 12	\$2 33	\$1 50	.	.
820,	1 25	66 ² / ₃	{ 2 00 10 2 83}	.	2 42	.	2 00	1 50	1 00	.	1 28	.	.	\$0 50	\$4 94

CARPET MANUFACTURERS.

NUMBER.	No. of days in operation.	Weavers.	Spoolers.	Winders.	Alterers.	Creelers.	Loom fixers.	Burlers.	Cop sizers.	Wrappers.	Stamper.	Lacers.	Dyers.	Machinists.	Setters.	Printers.	Fillers.	Engineer.	Watchman.	Foreman.
3,	505	\$2 00	\$1 00	\$0 75	..	..	\$3 50	\$1 00	..	\$3 50	\$2 00	\$1 00	\$2 00	\$3 00	..	..	..	\$2 25	\$2 00	..
4,	800	1 50	1 25	1 00	..	..	2 25	1 16	..	1 50	..	..	2 00	..	..	..	..	..	..	..
5,	300	1 58	1 00	1 50	..	..	2 50	1 14	..	1 61	..	..	..	..	..	..	..	..	..	..
6,	806	1 75	*1 25	*1 25	..	..	2 50	1 20	..	1 6	..	..	..	2 50	..	..	..	..	..	..
7,	272	1 75	1 50	1 25	..	..	2 50	1 40	..	1 75	..	..	..	..	..	..	..	2 00	..	\$2 50
8,	297	1 46	66	..	..	..	2 00	1 00	..	1 00	1 00	..	..	2 00	..	..	..	..	..	..
9,	800	2 25	1 10	1 10	\$1 00	\$0 80	3 00	1 00	\$1 50	1 00	1 25	75	2 00	2 50	\$1 50	\$2 25	\$1 50	..	..	..
10,	800	2 25	1 10	1 10	75	..	8 00	1 85	1 17	2 50	1 75	75	2 00	2 50	..	..	..	..	..	..
11,	306	1 42	27	40	..	..	..	..	..	1 75	1 75	..	..	..	..	..	..	..	..	..

* Women.

UPHOLSTERY GOODS AND MILITARY TRIMMINGS.

NUMBER.	No. of days in operation.	Nature of product.	Cord spinners.	Warpers (males).	Power-loom weavers (males).	Metal workers.	Braiding machine tenders (females).	Warpers (females)	Power-loom weavers (females).	Hand-loom weavers (female)	Silk-winders and spinners(females).	Tassel makers (females).	Tapestry-weavers (males).	Damask weavers (females).	Spoolers and winders (females).
894,	309	Upholstery and military goods,	\$2 75	\$2 00	\$2 50	\$2 50	\$1 00	\$1 50	\$1 50	1 25	\$1 25	1 00	\$2 00	\$1 60	\$0 35
911,	300	Upholstery and Damask goods,	..	..	..	..	..	..	..	..	..	..	to 2 40	to 1 85	to 1 00
894½,	245	Upholstery goods, . . . . .	..	..	2 00	..	..	2 00	..	..	..	..	..	..	1 00
878,	268	Upholstery goods and tapestry,	..	..	1 50	..	..	..	..	..	..	..	..	..	83½ to 1 00
926,	304	Upholstery goods, etc., . . . . .	..	2 66	3 00	..	..	..	..	..	70	..	2 75	1 35	1 00

UPHOLSTERY GOODS AND MILITARY TRIMMINGS—Continued.

NUMBER.	Loom boss.	Engineer.	Watchman.	Laborers.	Boys.	Dyers.	Bleachers.	Ross dyer.	Ross bleacher.	Ross finisher.	Coverlet weavers (males).	Burlers (females).	Helper.	Ross beamer.	Twisters.	Splitter.	Cloth boss.	Under baemers.	Upholstery weavers.	Ticking weavers.
911,	\$2 50	\$2 67	\$2 00	\$1 50	{ \$0 50 to 80 }	\$1 75	\$1 75	\$2 50	\$2 50	\$2 50	{ \$1 85 to 2 25 }	1 00	2 6	\$2 66	\$1 83	\$1 83	\$1 83	\$2 50	\$2 75	\$1 40
894½,	3 00	..	..	..	..	..	..	..	..	..	..	\$0 83½	..	..	..	..	..	..	..	..
873, . . . . .	..	..	..	..	..	..	..	..	..	..	..	1 00	..	..	..	..	..	..	..	..
926,	2 75	2 00	..	..	..	..	..	..	..	..	..	1 20	..	..	..	..	..	..	..	..

HOSIERY.

NUMBER.	Number of days in operation.	Winders.	Knitters.	Cutters.	Sewing machine operators.	Menders.	Paters and folders.	Bramson knitters.	Loopers.	Pressers.	Finishers.	Sewers.	Knitter boys.	Packer boys.	Pressers' boys.	Cutters, children.
870,	295	\$1 00	{ \$1 80 to 1 75 }	\$1 50	{ \$1 25 to 1 50 }	\$1 37½	{ \$1 37½ to 1 00 }	\$1 00	\$1 30	\$1 75	\$1 25	\$1 50	..	..	..	{ \$0 33½ to 60½ }
872,	300	1 00	{ 1 16½ to 2 00 }	..	..	1 16½	..	..	..	..	..	..	..	..	..	..
961,	800	1 16½	..	1 00	..	..	..	..	..	..	..	..	\$1 00	\$1 33½	\$1 33½	..

TEXTILE FABRIC MANUFACTURERS—Continued.

NUMBER.	Front tenders.	Card gilders.	Stubber tenders (females).	Picker-hands.	Roving frame tenders (females).	Weaving overseer.	Boss beamer.	Twisters (female)	Mechanics.	Firemen.	Watchmen.	Dressers (females).	Dressers (males).	Bleachers.	Sewing machine operators (females).
853,	\$0 50	\$1 50	\$1 16 ¹ / ₂	\$1 25	{ \$1 16 ¹ / ₂ to 1 25 }	\$3 00	\$2 33	\$1 25	\$2 25	\$1 50	\$1 33 ¹ / ₂	..	..	..	..
863,	..	..	..	..	..	..	..	..	..	1 37 ¹ / ₂	..	..	..	..	..
862,	..	1 50	75	..	..	..	..	..	..	..	..	\$0 43	..	..	..
866,	..	..	..	..	..	..	..	..	..	..	..	50	\$1 25	\$2 00	\$1 25

COKE PRODUCTION FOR 1888.

As the following statistics of coke production differ somewhat from those appearing elsewhere, an explanation is in order. In previous years considerable differences appeared in the statistics published in reports and newspapers; the Bureau, therefore, determined to get them for 1888 independently of other collectors. An inquiry was made of each producer, and whenever a discrepancy appeared between his return and that made to the mine inspector, of his district, or to another person who was conducting an independent inquiry, the producer was asked for an explanation, and this work of clearing up the discrepancies was continued until all of them disappeared. The explanation covering the larger number of them is, the earlier figures were estimates of production, and which could not be otherwise at the time the information was furnished. The delay in publishing the returns by the Bureau has enabled the producer to substitute exact figures for estimates.

COUNTIES	Tons.	COUNTIES.	Tons.
Fayette,	3,248,251	Centre,	20,555
Westmoreland,	2,128,723	Clarion,	9,029
Cambria,	194,074	Armstrong,	4,320
Blair,	121,268	Butler,	3,740
Clearfield,	108,632	Elk,	2,505
Huntingdon,	76,292	Somerset,	2,000
Allegheny,	73,909	Washington,	1,910
Tioga,	36,817		
Bedford,	34,201	Total,	6,608,726
Indiana,	21,600		

IRON ORE PRODUCTION FOR 1888.

NUMBER OF MINE.	Days in operation during the year.	Production—tons.	NUMBER OF MINE.	Days in operation during the year.	Production—tons.
1,	300	722,921	14,	45	5,419
2,	214	50,575	15,	53	
3,	190	45,000	16,	6	
4,	200	118,270	17,	113	4,251
5,	150	9,000	18,	208	4,100
6,	240	4,150	19,	160	3,000
7,	264	12,426	20,	300	25,000
8,	293	32,940	21,	150	
9,	250	10,000	22,	150	
10,	266	8,000	23,	240	3,900
11,	45	7,000			
12,	158	5,419	Total,		1,065,952
13,	206				

For total coke production read 6,087,826 instead of 6,608,726.

In iron ore table the production of numbers 12, 13, 14, 15, 16 is 5,419 tons. Omit the repetition.

The coal production of Schuylkill county (page 109 C,) is 8,067,123 tons instead of 8,097,123.

COAL PRODUCTION FOR 1888.

COUNTIES.	Production—tons.	Number of men employed.
Anthracite.		
Luzerne,	18,397,153	48,495
Lackawanna,	10,206,055	24,734
Schuylkill,	8,097,123	26,073
Northumberland,	3,075,548	11,494
Carbon,	1,449,032	4,563
Columbia,	712,821	2,087
Dauphin,	579,941	2,136
Susquehanna,	213,595	591
Sullivan,	84,031	273
Total,	42,785,299	120,446
Bituminous.		
Westmoreland,	7,222,245	12,092
Clearfield,	5,625,366	8,077
Fayette,	5,246,683	8,375
Allegheny,	4,885,053	10,348
Jefferson,	2,275,616	3,762
Washington,	1,634,649	4,178
Cambria,	1,594,133	3,291
Tioga,	1,075,296	2,410
Clarion,	558,099	1,198
Elk,	547,848	1,111
Mercer,	480,993	1,122
Centre,	439,121	693
Somerset,	351,177	584
Huntingdon,	275,700	615
Blair,	253,214	575
Bedford,	237,860	569
Armstrong,	224,781	531
Butler,	191,196	399
Bradford,	163,821	380
Indiana,	159,223	218
Lawrence,	106,921	257
Beaver,	45,800	89
Clinton,	32,000	134
McKean,	10,443	16
Greene,	5,004	19
Cameron,	1,024	7
Total,	33,643,266	61,050



WORSTED YARN MANUFACTURING IN PENNSYLVANIA.

In the last Report of the Bureau, the plan was adopted of devoting a part of each Report to a detailed account of one or two of the leading industries of Pennsylvania. Last year the Bureau selected for this purpose the Keystone Saw Works of Henry Disston & Son, and the Cambria Iron and Steel Works, at Johnstown. In the present Report a description will be given of the worsted yarn industry as carried on by Erben, Search & Co.

The manufacture of worsted yarn advanced by slow stages and no marked improvement was introduced until 1785, when Arkwright and Hargraves invented, the one the drawing-roller and the other the spinning-roller. From that time to this the history of woolen machinery has been full of constant improvement and wonderful progress. The greatest stimulus to the industry was that given by the invention of the Noble comb about 1860.

The first power-combing worsted mills in Philadelphia were established by Samuel Yewdall in West Philadelphia. He manufactured nothing but worsted yarns out of long coarse wool using Lister combs. These combs are specially adapted to the combing of long lustrous wools, whose product was woven into fabrics intended to have a very hard finish and to be very lustrous, such as braids, alpacas and goods that were known as delaines. The commencement of these mills was about 1860, and about two years after the starting of this enterprise John and William Yewdall started the Fairmount worsted mills located at Twenty-fifth and Spring Garden streets. One of the improvements they introduced very shortly after the commencement of their enterprise was the Noble comb. This was a comparatively recent invention used in England, and adapted to the use of shorter and finer wools. The Lister comb was best adapted for wools from five to eight inches long, usually coarse in fibre, the short fine wools being almost wholly carded for woolen yarn—by the introduction of the Noble comb a large percentage of these short wools were made available for worsted purposes. From this time dates the commencement of the manufacture of fine fancy cassimeres for men's wear made from worsted yarns. An account of the operation of the Lister and Noble combs will be given when we come to describe the operation of combing. The shorter wools are the softer wools and are adapted to give a fine face finish to cloths. These cloths have been steadily growing

in favor since the introduction of the Noble comb, having almost entirely supplanted the fabrics formerly known as broadcloth, doeskin and the like. At first worsteds were light fabrics but now they are backed with woolen yarn to make them warm. Since the introduction of the Noble comb the worsted industry has been steadily increasing. The growth is as remarkable in the cloth industry as in any other branch, until at this time there are above six hundred combs running in the United States of which probably one-third are in Pennsylvania, and nearly all of that third in the vicinity of Philadelphia. The rest of the six hundred are almost entirely in Rhode Island and Massachusetts. Single 36 or yarn running 20,160 yards to the pound about represented the limits of economical working possibilities under the old Lister comb process, when using the long coarse wools but under the newer Noble comb process, enabling much finer wool to be used, the count has been increased to No. 80 or even No. 100, representing from 44,800 to 56,001 yards of thread per pound. The product of the Lister comb was in a very much smaller degree suitable for the loom, while the product of the Noble comb is almost entirely taken for the loom. These improvements are due to the possibility of using finer cards and finer combs and employing finer and shorter wools.

History of the Firm.

John and William Yewdall ran the mills until 1870, when they were succeeded by Fiss, Banes & Erben, the firm being composed of George W. Fiss, Colonel Charles H. Banes and Henry Erben. A year and a-half afterwards Theodore C. Search was admitted to the firm, the name being changed to Fiss, Banes, Erben & Co. This relation continued until 1883. In 1883 the firm was succeeded by the firm of Erben, Search & Co., composed of Henry Erben, Theodore C. Search, Charles H. Harding and Walter Erben and so stands to-day. In Fiss, Banes and Erben's time the capacity of the mills was increased fifty per cent. The business continued to increase and the quarters became too limited for the operations carried on by the last firm and in 1884, the draft and plans were obtained for the new mills which were located finally at Tacony, in the city of Philadelphia. These mills were built expressly for the manufacture of worsted yarns. Before building them a careful investigation was made of leading works of like kind in Europe. The works are situated on the Delaware river, whence the water supply is drawn, and on the Pennsylvania railroad, two sidings of which connect the works with the main line. The works, besides the rooms used for worsted manufacturing, contain a machine shop which adjoins the combing room, where all repairs are made. The pumping room is furnished with an improved Worthington pump, which pumps the water in directly from the river, and the engineer has control of the water supply to

every part of the building. Wells have been bored to supply perfectly clear water. The flow of these wells is at the rate of fifty gallons per minute, now being increased to one hundred gallons per minute. The works are lighted by both the arc and incandescent lights. The arc lights are used to light up a whole room, while the incandescent are to light up parts of machines. The arc lights are the Thomson-Houston and the incandescent are the Edison and the Sawyer Mann systems. There are two dynamos, one for each system of lighting. There are 30 arc lights of 1200 candle power, and 150 incandescent lights of 20 candle power.

With this general description of the character of the worsted industry and of the works at Tacony, let us proceed to examine the various processes in detail. There are in the manufacture of worsted thread seven main operations, as follows :

1. Sorting.
2. Scouring.
3. Drying.
4. [*a*] preparing or [*b*] carding.
5. [*a*] combing by the Lister or [*b*] by the Noble comb.
6. Drawing.
7. Spinning.

1. Wool Sorting Room.

Soundness of fiber is the one great desideratum to the worsted spinner; and without it he cannot make good work. It is, therefore, customary for all manufacturers to have trained help for the special purpose of examining and testing the staple of fleeces to prove their fitness for the work. The fiber of worsted is called upon to undergo very considerable strain in the process of being combed and drawn, preparatory to spinning, and unless the strength is sufficient to stand the usage much loss must ensue by waste during the process; and tender yarn as well as poor yarn will necessarily result. We then arrive at the point of manufacture of the fleece before us. This must be sorted, as to quality; by which we mean fineness of fiber. This is the main work, incidentally it may include the separation of locks having burrs, which are undesirable in the further process—it necessarily includes the separation of the weak, scrawny parts of the fleece, such as the neck pieces, shanks, leg clippings, etc. The worsted manufacturer wants only the best fibers out of the fleece. The amount of rejection in a good, healthy fleece of fine wool will reach ten to twelve per cent., as wool is generally put upon the market by the American farmers. In coarse fleeces the amount is still less. This twelve per cent. may be divided as follows: seven to nine per cent. shorts, two per cent. strings, one to two per cent. burrs. The rest of the sorting work consists in separating the different qualities of the remaining part of the fleece. These qualities are made accord-

ing to the work for which they are intended. The sorter's work is one which requires constant care, a quick eye and good judgment. To the uninitiated he appears to work without apparent thought, but this can only come from long experience, for there is no work requiring more care, especially in mills whose product is yarn, which it is desirable to have of a constant, uniform grade. The different kinds of wool are used for different kinds of goods. Kentucky and Canada wool are long staple, in many respects similar. The different kinds of sorted wool are put into different bins, each one being lettered for a particular kind of wool. The arrangement of these bins is peculiar and nothing like it is found elsewhere. There are trap doors in the floor in front of each bin and each one lettered to correspond with the bin. Each has a double outlet, and the wool thus falls into its proper place in the basement of the floor below. In the basement, trucks come into the bins and remove the wool. As the trucks leave the room, they pass over the scales, and the wool is weighed and a record taken each day. The capacity of each bin is from 15,000 to 30,000 pounds, and the total storage capacity is 250,000 pounds.

There is also a second store house of like dimensions. In this wool-sorting room, there are windows at every few feet, so that each sorter may have all the light that is possible on his work.

2. The Wash House.

Perhaps more than in any other department, ultimate success depends upon the perfect result here obtained. The ideal result is the absolute cleansing of the fiber from all foreign matter; at the same time, care being taken not to rob the staple of the life and elasticity which it naturally possesses. The lorications of the fiber or the leaf-like projections around its circumference conceal a very large amount of animal matter called "suint" or "yolk," probably the exudation of animal matter from the pores of the skin; which seems to be a natural provision for the proper lubrication of the fleece. Whether or not this is the fact, the substance is present, and its presence causes dust and other extraneous matter to adhere to the fiber. It is the business of the washer to remove these so as to produce the ideal result as nearly as possible. The agencies at hand are water, heat and soap. One of the most wide-spread difficulties is hard water in which it is impossible to properly cleanse wool. The sulphates and carbonates of lime held in solution are the staunch enemies of the wool washer. These may be neutralized by introducing a small quantity of soda crystals or soda ash, these are carbonates of soda, it is true, and cannot do the work as well as caustic soda, but the latter requires so much care, that there is considerable danger of injury to the wool. So that while there can be no difference of opinion as to the effect of pure caustic upon hard water, yet manufacturers have preferred to use the faulty and slower process of soda crystals or soda

ash. Without the use of these means in advance, the carbonic and sulphuric acid will promptly seize upon the alkali of the soap, and decompose it, leaving the oil and tallow to unite with the lime, and thus form an insoluble paste, which will be deposited upon the fiber of the wool and which it is almost impossible to remove. If not removed absolutely and thoroughly, the dyeing can never be perfectly accomplished, and uneven, spotty colors, will be produced, instead of the beautiful even dyes which are so natural to the fiber. It is then a most important matter to correct the hardness of the water, whether by pure caustic soda or otherwise. The soap for wool should be of potash, inasmuch as the yolk, before referred to as existing in the wool, and which in greasy, fine wools amounts to one-fourth of the gross weight of the fleece, is one-half potash, and when properly treated, forms a valuable ingredient in chemical operations; at the same time, the soapy nature of the cleansed fiber is not interfered with. Soda has an opposite effect and in addition will discolor the wool, unless the utmost care be exercised to entirely eliminate it after washing. Heat is an invaluable agent in washing, but it is quite as easy to have a wrong use made of it, as it is to spoil any other operation, no matter how intrinsically valuable it may be when properly performed. Strong soap and hot water will kill any wool; in fact, strong soap and hot water will dissolve wool. Very hot water alone will take out the natural wave of the fiber, and thus destroy its elasticity; and this once taken away, can never be restored, as it results in a permanent alteration in the cell structure. Without elasticity of fiber, good spinning is impossible; to sum up, the ideal result to be obtained in this operation, is the removal of all foreign matter, and the yolk, without injury to the fiber, structure, color, elasticity, or other intrinsic natural properties. The scouring of wool at Tacony and almost everywhere else in this country is done by machinery, a long "soaking vat," whose temperature varies from 110° to 120° according to the conditions of the wool, receives the raw material. Iron forks moving with great regularity carry the wool through it. At the end of the vat there is a large "squeeze roll," like the ordinary wringer for washing clothes. Through this the wool is passed into vat No. 2, the dirty water flowing back into the soaker. From the second vat the wool passes to the third, and altogether through four, each vat having moving forks and "squeeze rolls" at the end. The strength of the suds is decreased at each operation until the last, or rinsing bowl is reached, containing only clear water.

3. Drying.

The wool on leaving the washing machine is carried to the dryer. The ideal drying machine should be perfectly adapted to deliver its product ready for the cards unimpaired in vitality and working qualities. Any form of machine that will accomplish this and at the same

time reduce the moisture to the desired point, may be used. At Tacony, cold air is used, as it is quite an impossibility to reduce the moisture very much below the humidity of the atmosphere, and all danger is thereby avoided. But with hot-air drying machines it is possible to extract the moisture and dry the cells until they become exceedingly hard and brittle. The loss in this case seems to be of a more or less permanent character, and not only from five to ten per cent. of the weight of the fibers is lost, but at the same time the working conditions are impaired to a still greater degree. This cannot happen with cold-air dryers. The degree of moisture to be extracted varies according to quality and methods of treatment, but frequently there is considerable moisture allowed to remain in fine wools which are to be carded, as its presence serves to a very considerable degree to render the fiber more elastic and pliable, and hence better fitted to stand the operation of straightening and opening as performed by the card. It is usual at this stage of the process to slightly oil the wool also, to assist its passage through the card; this practice is, however, not strictly adhered to, as many spinners are opposed to the use of oil. If used, the oil should be of the very best kind, having the property of oxidizing but little, retaining its fluidity, saponifying easily and not becoming rancid.

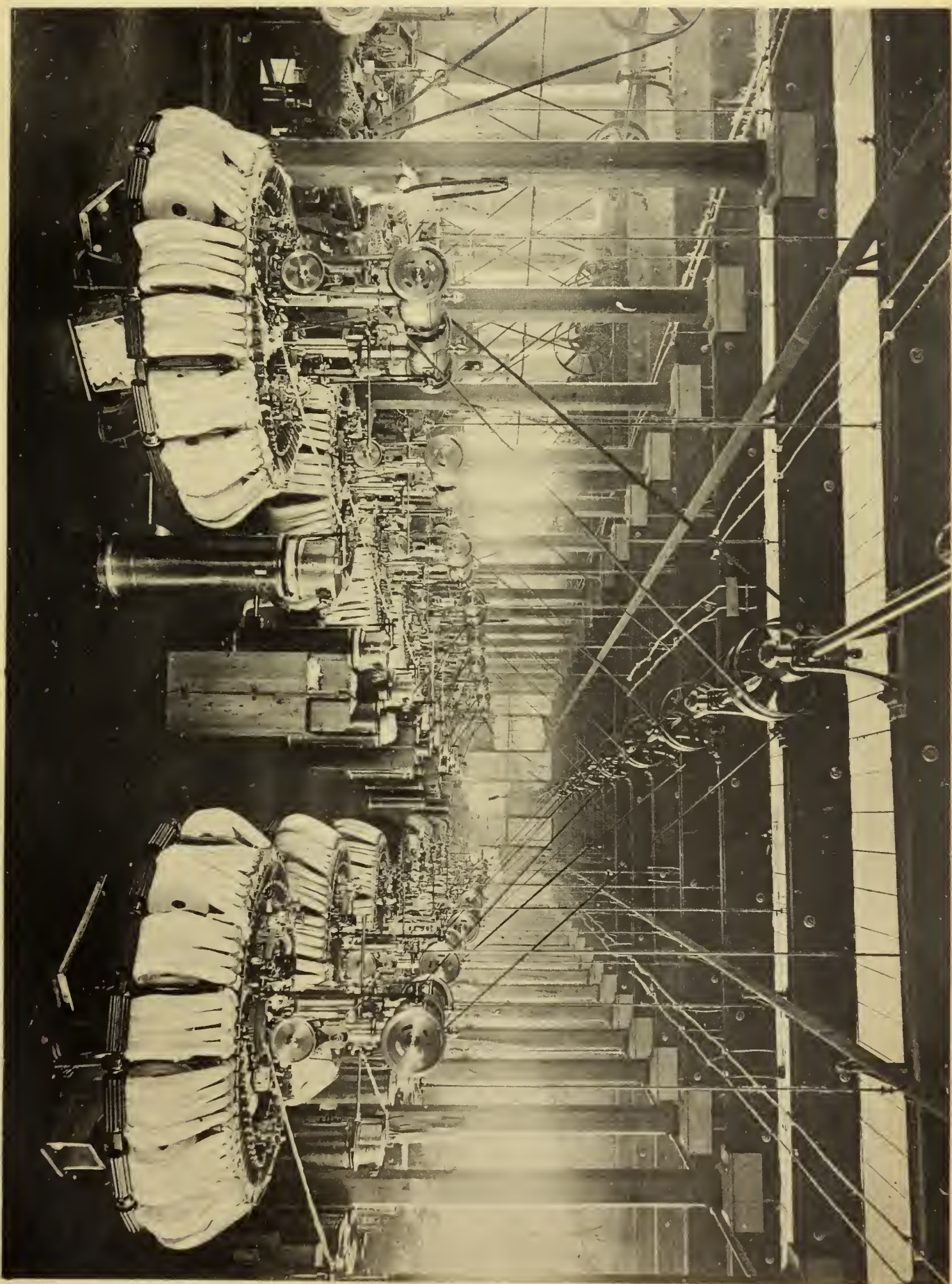
4 [a]. Preparing.

Before combing by the "Lister comb," the wool undergoes an operation called "preparing." Wool intended to be combed by the "Noble comb," is not "prepared" but "carded," the object of preparing is to take the wool and by a series of successive "gillings," to straighten the long fibers of the wool intended to be combed, in order that the operation of combing may be conducted with greater facility and with less damage to the staple. The preparing machinery consists of what are technically known as "gill boxes." They are constructed so as to draft and open the wools, the essential parts are the back rollers, the gills which consist of sharp needles set in frames, and the front rollers.

The draft of the Gill box is caused by the front rollers being driven at a greater speed than the back rollers which causes the fiber to be drawn through the one more rapidly than delivered by the others. The wool passing through steel pins set in steel bars which are located between the two sets of rollers, the passage through these pins separates the fiber or technically opens the wool, much care must be exercised during the process or the fibers will be broken by the strain and unfitted for worsted purposes. The result of this operation is to form a sliver. The "sliver" from the first gill box is more or less uneven throughout its length and is now taken in hand for the purpose of eventually obtaining an even "silver," preparatory to combing. To accomplish this, five or six of these "slivers" are run into one by the use of a second



QUARTER SECTION WORSTED CARD ROOM.



COMBING ROOM.

Gill box. The object being to so intermingle them that the deficiency in one may be supplied by its neighbor, which may perhaps be over supplied with material at the point of contact; at the same time the draft in operation continues, and these "slivers" are finally drawn into one somewhat smaller than any of those set up. This leveling continues throughout the process of manufacture. The third, fourth, fifth and sixth gill boxes repeat the operation if so many are in use, and the wool from repeated doublings and combination finally makes a comparatively level "sliver," and the fibers from the continued use of the "fallers" and "gills" will have been very thoroughly separated and put into parallel lines, but still contains all the knots and broken fiber that was originally in the wool, all of which comes within the province of the comb to remove. Throughout the operation the "pins" are well looked after to see that the points are kept sharp, and the broken ones repaired.

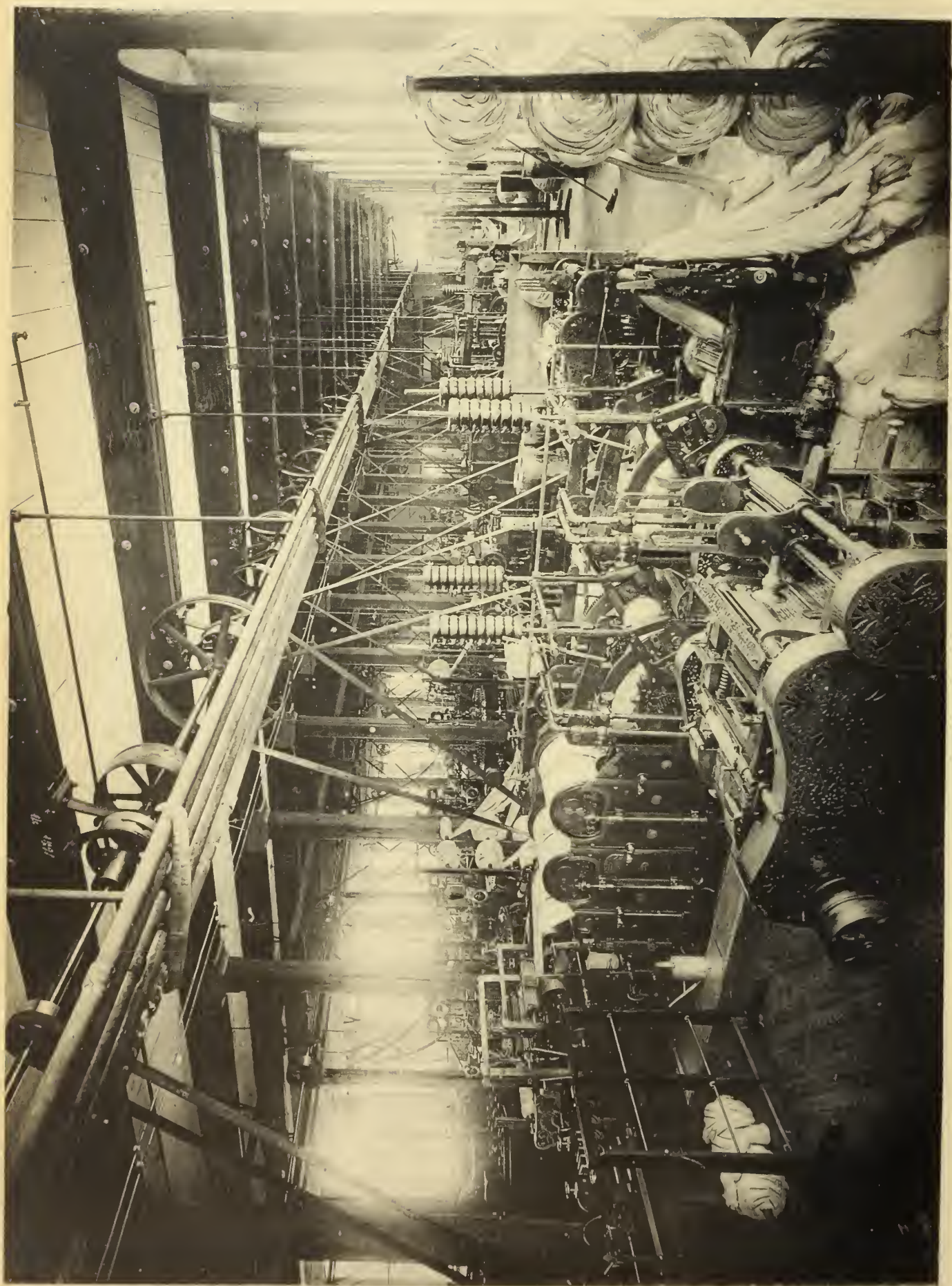
5 [a]. Combing by the "Lister Comb."

Preparing, as the preceding process is called, is usually followed by combing by the "Nip or Lister comb," one of the most delicate machines to adjust in the whole line of worsted machinery, and for lustre wools and long wools there is probably no better comb yet invented. The principal upon which it works is somewhat difficult of description, and not easy to comprehend without a working model, but it consists of a "gill box," nip motion, carrying comb, and circular comb, four feet in diameter. The prepared "slivers" are put in side by side at the back of the gill box and fed through into the "fallers," which are sufficient in number to form a mass of projecting teeth as wide as the staple of the wool is long, so that the fiber may lie its entire length buried in these teeth, these "fallers" are curved to accommodate the curved nip and carrying comb, since the latter feeds an arc of a circle. The wool after passing the feed rolls of the gill box, is pressed into the fallers by a wooden roll which rests upon the slivers, this pressure is constant at the point of contact, and the wool travels forward imbedded in the gills of which there may be twenty or more until it reaches the last faller in the set; as this drops the projecting ends are immediately seized by the curved nip, which consists of a pair of steel jaws. The nip is then drawn away at right angles with the sliver and the entire mass of fibers being drawn through the faller teeth is effectually cleansed of all impurities, excepting what may remain in the part gripped by the nip. Having been cleansed by the fallers, the carrying comb comes into play with upward thrust through the uncombed ends of the sliver (which at this moment is released by the grip) and is carried forward and deposited on the circle, which continually revolving, carries away the wool until the projecting end is caught by the drawing-off roll or leathers and forcibly drawn out of the circle pins; this action combs the staple gripped by the nip,

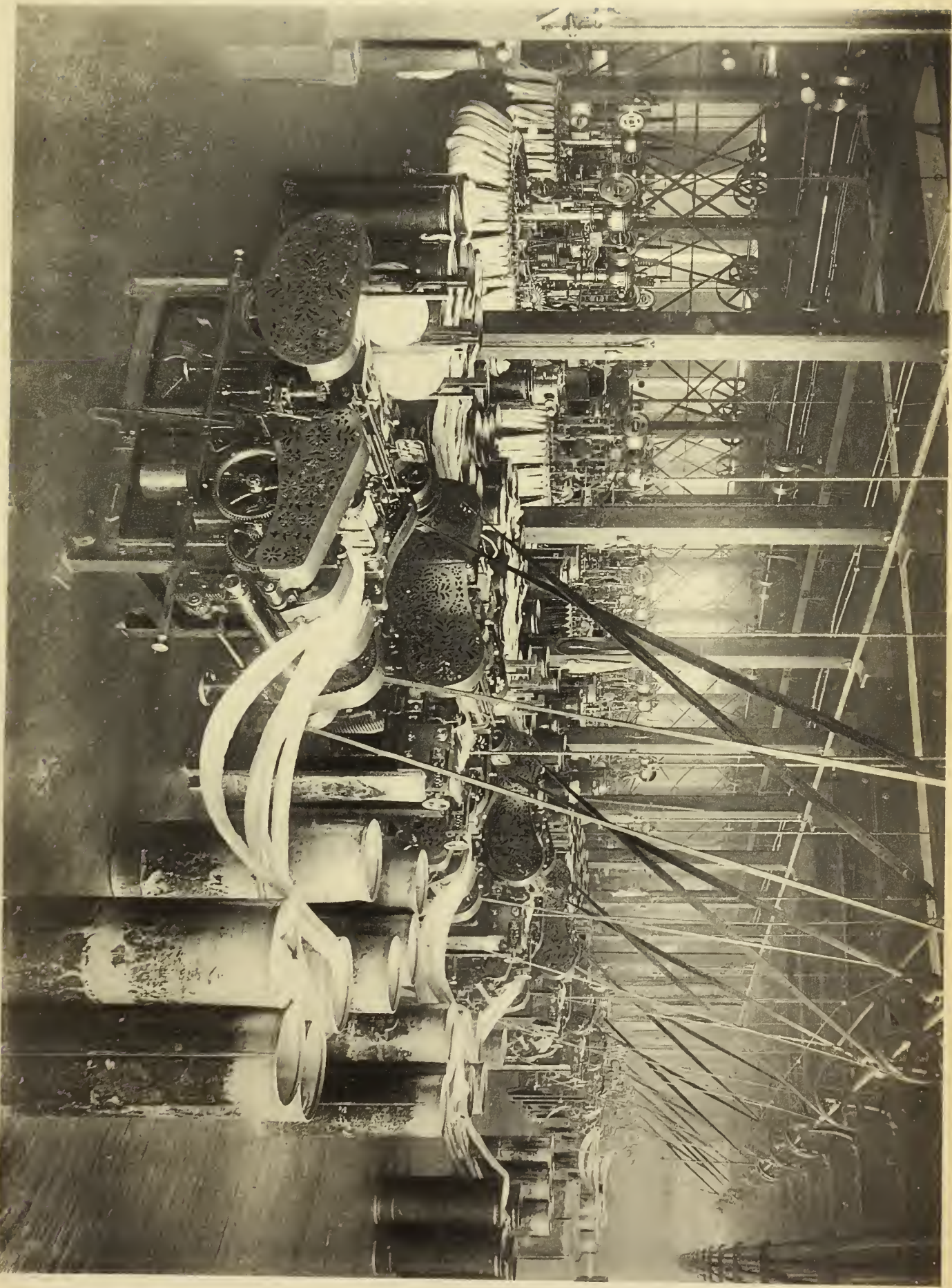
and fully and perfectly completes the operation. The circle continues its revolutions with the "noil" left in it by the withdrawal of the combed staple. This "noil" is finally ejected by a pointed blade which lifts it out of the teeth, and throws it aside. These combed slivers are put up at the back of a "can-gill box" to be straightened out and leveled and these "cans" are used to supply a "balling box" which forms them into balls, called "tops."

4. [B]. Carding.

Before considering the process of combing by the "Noble comb," we must first examine the process of "carding." This comb is adapted to wools with a very short staple and which cannot be straightened well except by the cards. The wool after being scoured and dried as before explained, is carried at once to the card. These cards are made expressly for worsted wools, where straightening of the staple is the first consideration, and the second is the removal of foreign matter in the shape of "burrs," "shives," or small splinters of vegetable fibers. The object of carding is to straighten the fibre, and to get the numerous pieces of wool into a continuous sliver. The wool is put into a feeder, one of which supplies each of the carding machines. The feeder is automatic, requiring simply to be kept full of wool, which it feeds at a uniform rate into the carding engine. The carding engine consists of a number of large cylinders revolving close to each other in different directions and all covered with fine wire points. The first rolls seize the wool, and pass it along to the second which revolve at a higher rate of speed, practically drawing the wool through the teeth of the first pair gently straightening it; or if the grip be insufficient, the teeth of the second pair of rollers are themselves pulled through the fiber, thus performing a similar operation for the other end. The wool thus carried through is taken up by the teeth of the "swift" and carried to the "workers." These run in a contrary direction yet without having the teeth in contact with those of the "swift." They are however so near as to take up all lumps, and in doing this a combing process is instituted, tending to draw out and level the fibre. As one "worker" cannot receive all the uncombed wool; the escape portions pass on, and are intercepted by the remaining "workers." After passing the "workers" the wool is intercepted by another toothed cylinder called the "fancy." This has longer teeth projecting into the teeth of the "swift," so as to loosen up and raise the wool now on its surface, in order that the "doffer" cylinder, may easily disengage it, and carry it forward. If it be the last "doffer" in the process, a swiftly-flying steel-toothed comb plays on the "doffer's" periphery, raking off the wool in a sheet which is condensed by passing through a cone-shaped cavity, and thence rolled into a ball preparatory to removal. The carding room contains twenty-two of these carding engines. Of



BACKWASHING SECTION.



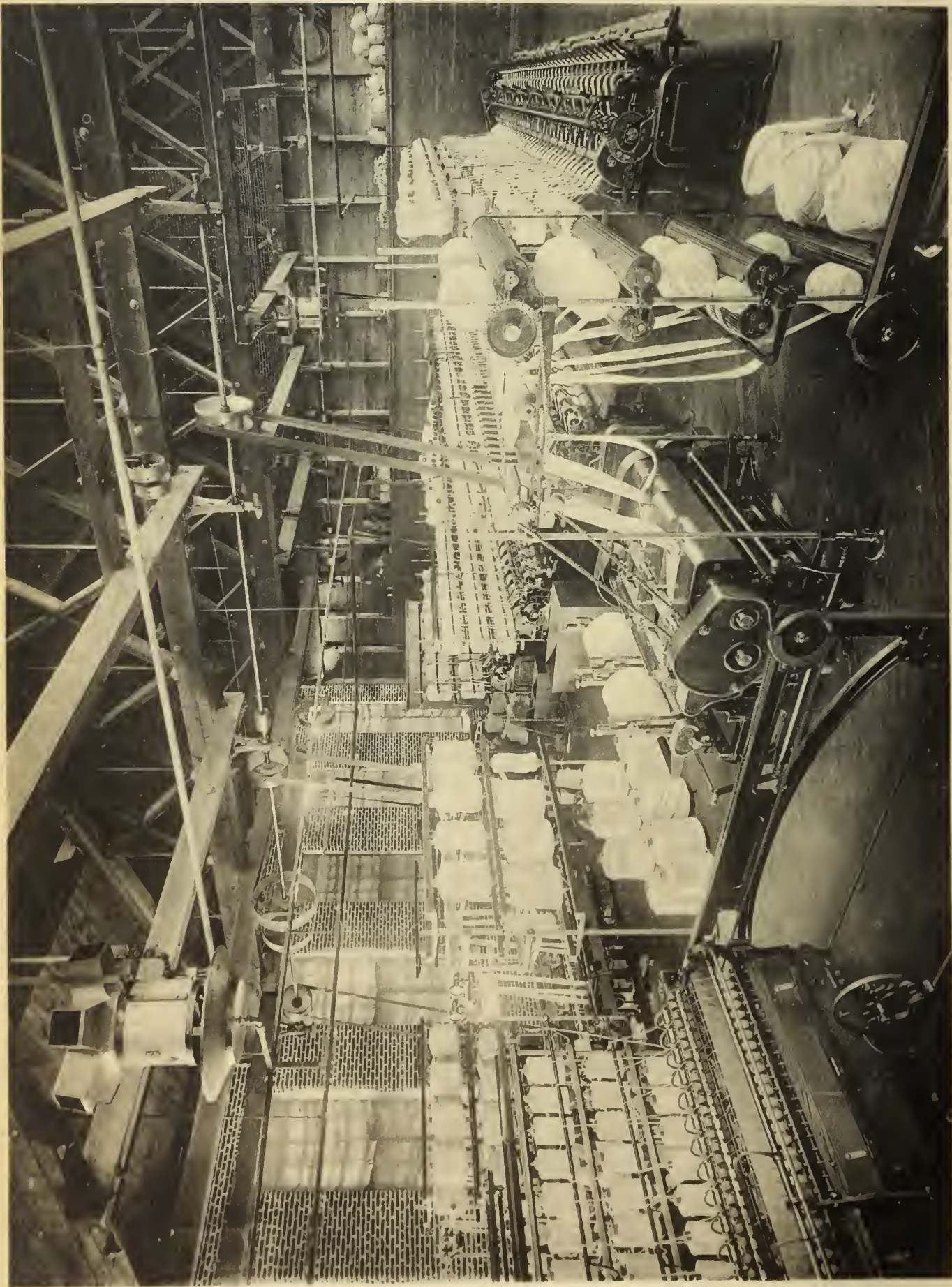
GILLING DEPARTMENT.

these, eight are English, and the rest American. The English cards are all of iron, while the American cards are mostly of wood. The idea of iron machines is to insure trueness. There can be no warping in iron machines.

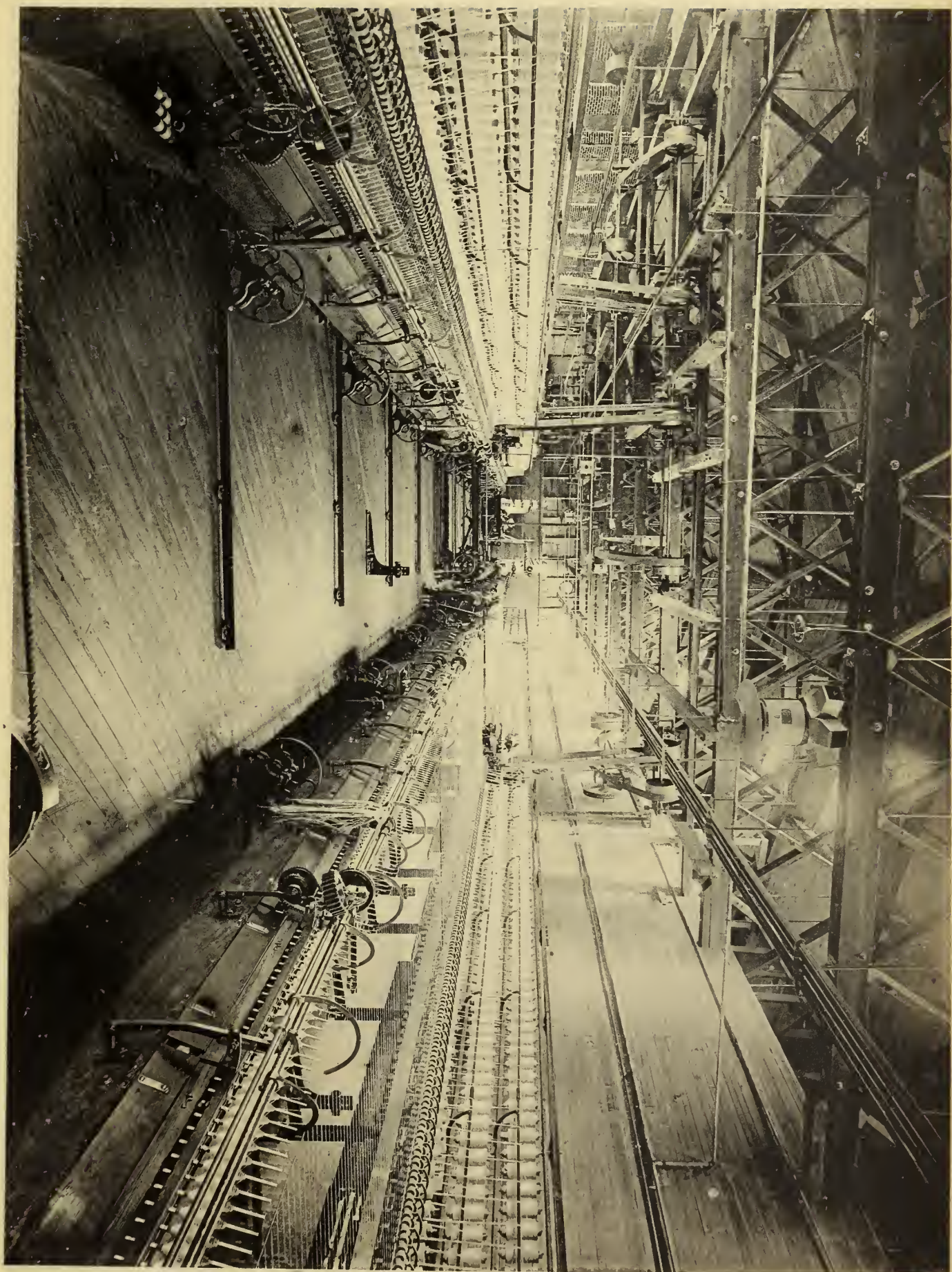
5 [b]. Combing by the "Noble Comb."

In the combing room there are several processes before the wool is actually put into the comb. The carded wool is washed by putting it into a "back-washer," in order to cleanse the wool more thoroughly and to dampen it before it goes to the combs so that it may work more freely. This machine consists of two vats containing hot suds through which the wool is passed, then through two pairs of "squeeze rolls" to remove the water, and then over five cylinders heated with steam, to dry it. There are six of these machines in a room. After leaving the "back-washer" the wool undergoes several "gillings," which operation has been before described. At this stage the slivers are again doubled to avoid uneven places. They are then taken to a machine called a "baller" which makes balls of the wool each with four ends and ready to be put into the "Noble comb." It is difficult if not impossible to give a clear idea of the structure and action of the "Noble comb" without a model. This machine is circular in shape, about six feet in diameter, whereas the "Lister comb" is rectangular. It may however assist to a comprehension of this machine if we consider first the object of the combing. The object of combing is to remove completely all flakes or specks or lumps not removed by carding and also the short fiber, besides this to thoroughly straighten the fibers, and lay them absolutely parallel before spinning. To effect this, the wool fiber must be combed in both directions. The reader will at once understand what is meant by combing in both directions if he imagines himself holding a piece of wool in one hand and combing the loose end with an ordinary comb for the hair. He will see that to comb the wool equally he must, after combing it in one direction, reverse the process, take hold of the loose end which has just been combed and then comb out the end which he formerly held in his hand in order to complete the work. This then is the fundamental principal of combing—to comb the wool in both directions. The "Noble comb" consists of a large wheel containing around the circumference six or more perpendicular rows of sharp needles or "pins" and this wheel rotates rapidly from right to left. On the under side of the wheel are spools upon which the balls with four ends above referred to are placed and they thus revolve about with the wheel itself. Eighteen of these balls are put upon the "Noble comb," and the four ends of each ball or seventy-two ends in all are unrolled from the balls and laid over the needles of the large circle above described. Inside of this large circle, revolving in the same direction, and almost in contact with it, are two small circles, sixteen inches or more in diam-

eter, containing five or more rows of needles each. These two wheels are on opposite sides of the interior of the larger wheel. Their action in respect to the large wheel is identical, and therefore only one need be described. At the point where the large and small wheels are almost in point of contact, the woolen "sliver" unwound from the ball is put over the "pins" of the large and small wheel inside of it simultaneously. A brush called a "dabbing-brush" works up and down at this point of contact, and presses the wool down firmly into the needles or pins of both the wheels. As they are both revolving rapidly in the same direction the wool is torn apart, as the circumferences of the two wheels separate. The loose end hanging from the smaller wheel is struck by the teeth of a small brass wheel called a "licker-in" which revolves rapidly within one inch of the small wheel and in the same direction. This loose end is now caught between two rollers, one of which has running on it a leather belt revolving in the same direction and drawn out from the "pins" of the smaller wheel and thus the wool is combed in both directions. What remains hanging from the "pins" of the large wheel is likewise caught between two rollers, one of which has running on it a leather belt and is thus drawn off from the "pins." The belt then carries this fiber along until it comes in contact with the fiber from the smaller wheel whereupon the two unite. The small ends remaining in the "pins" of the smaller wheel, are called "noil," and are removed by means of stationary knives which are placed between the rows of "pins." The loose fiber from the two wheels is united as it leaves the machine and thus forms one continuous belt of combed wool, or as it is technically called the "sliver." The combing room contains eighteen "Noble combs" and two "Lister combs" which last are used now for combing Mohair. All these combs in the combing room are attended to by girls. The floor of the combing room is supported by iron pillars and joists which prevent the floor from vibrating and thus keep the combs perfectly steady. The combed "sliver" is run off into large cans through a coiler. These cans are filled at the rate of one every ten minutes. The coiler deposits the "sliver" in small circles around the sides of the can. The object of this is to prevent the "sliver" from parting on its removal from the can. The next part of the process is to splice the fibers. The slivers from the several cans are doubled several times by putting them together through a machine called a "can-frame." These are practically "gill boxes." The "sliver" from these "can-frames" is put into other cans, and then taken to the "balling machine." The operation of this machine is precisely similar to that of the "can-frame," except that the "sliver" comes off in the shape of a ball. These balls, the product of the combing room weigh four or five pounds each, and are called "worsted tops." They are stored in the basement in different bins according to their quality. There are



FRENCH DRAWING SECTION.



FRENCH SPINNING SECTION.

other bins in the cellar for the storage of the worsted “noils,” or refuse from the “Noble comb.” When yarn is to be wool dyed these tops are made into hanks after coming from the comb and then sent to the dyer. As the dyeing process felts the top, it is then necessary to recomb it before proceeding further.

6. The Drawing and Spinning Room.

The “worsted tops,” as they are turned out by the “Noble comb” are brought to the drawing and spinning room. The object of drawing is to diminish the size of the “sliver” from an inch or an inch and a half in diameter as it leaves the “Noble comb,” down to an eighth of an inch, or so thin that it can be drawn out into a thread in one pull by the spinning machines or mules. To effect this result, the “slivers” are doubled a number of times in order to eliminate any weakness from the yarn. The principal of the drawing machines is that an ordinary “gill box” with the second rollers running faster than the first, thus alternating the sliver as before explained. First, seven “slivers” are put into a “gill box” producing one “sliver,” which represents the doubling of seven ends. This “sliver” is then put through eight drawing frames in succession. In the first drawing frame the “sliver” is produced by the condensing of three “slivers” from the previous machines. Four of these ends are put into the second drawing frame, two of the “slivers” in the second drawing frame are put into the third, the “sliver” of the third is put through the fourth drawing frame without doubling, and then in each of the remaining four operations, three ends are put together each time. Altogether the sliver after going through these drawing machines, is doubled 13,608 times. The “sliver” on leaving the last machine is further condensed by being rolled between oscillating leather rubbers, which is the French method, instead of being twisted as in the English drawing machines. The “sliver” has now been reeled on to the bobbins and taken to the mules. Each mule contains 500 spindles and there are four mules in all, and they are also self-acting. The mules are all attended by boys who piece any ends that may break down. One spinner attends to two mules, and there is a head spinner for the room, also four “piecer” boys and four “back” boys. As satisfactory spinning depends to a large extent on the condition of the atmosphere and temperature of this room is kept as uniform as possible.

If two, three and four fold yarn is desired the requisite number of ends are put together and passed through a doubling machine. This machine doubles the thread without twisting it simply laying it side by side. The machine is furnished with an automatic stop motion, so that if one thread breaks there is no waste as the machine simply stops until the ends are spliced. The bobbins from the doubling machines

are then put into the twisting machine, then reeled and packed and is ready for sale.

7. The Works at Fairmount.

The preceding portion of this sketch has treated of the worsted works at Tacony. To illustrate more fully the distinction between woolen and worsted yarn, we will glance for a few moments, in closing, at the woolen works of the same firm at Fairmount.

Washing Department.—The first process in the manufacture of woolen yarn is scouring. The weight of the unwashed wool is reduced in scouring from fifty to sixty per cent., just as at Tacony, there is a long tank containing warm water and soap and alkali through which the wool is passed, this machine for washing wool is altogether forty-five feet long and has swinging gates to retard the passage of the wool, which is forced along by forks moving in a rotary manner through the vat instead of in a horizontal direction as at Tacony. A constant supply of fresh water runs through the vats throwing the refuse off. The domestic and foreign wools are put through different processes, and are not washed together. After scouring, the wool is dried by being put on a drying machine through which a blast of cold air is sent. Both cold and hot air driers may be used, but if the air is too hot, it causes the wool to feel harsh, and on this account is not so desirable as cold air drying.

Mixing Room.—In the manufacture of woolen yarn, different kinds of wool are mixed together, this is accomplished by placing the different kinds of wool in layers upon each other until a pile is formed in a bin, amounting to two or three thousand pounds. This pile is then cut perpendicularly down the face so as to make each mixture precisely the same. This mixture is then run through a willey or dusting machine. It consists of a revolving cylinder with projecting teeth. There is a strong draft connected with the machine, which removes the dirt that is not taken out in the scouring. The wool is next passed through a Packhurst picker, which opens the wool and removes the burrs, this operation is followed by what is known as mixing, after which the wool is oiled by a sprinkling machine and put into the mixer. The object of this machine is simply to work the oil throughout the wool and to turn it out in a feathery condition.

It consists of a cylinder with sharp teeth, revolving with great rapidity. Originally it was the only machine used, now it is the last as the wool is first put through the duster and then the Parkhurst picker.

Carding Room.—When the wool leaves the mixing machine it has been opened, scoured and oiled. It is now placed in a Bramwell automatic weigher and feeder, preparatory to being fed into the carding machines. This feeder consists of a trough into which the wool is placed and of an automatic scale. The wool is transferred



PHOTO-COLLOTYPE.

SECTION OF DRAWING ROOM No. 1.

WELLS & HOPE CO.

from the trough to the scale by a constantly moving apron armed with short barbs, which passes through the trough and engages with the mass of loose wool, a portion of which adheres to these teeth and is thus carried forward and deposited upon the automatic weighing scale, which in turn, after receiving a definite weight, automatically disengages itself and deposits its contents upon the feed apron of the cards, thus insuring a regular supply of wool and an even distribution of it to the card. Formerly it was necessary to have a boy for each carding machine who would weigh out four or five pounds of wool at a time in a pair of scales. Since the Bramwell feeder has been introduced one boy can mind a number of cards. This Bramwell feeder is attached to the first "breaker" or carding machine into which it feeds the wool. The first "breaker" operates on the same general principle as the carding engine at Tacony which we have previously described, the wool is raked off the last cylinder into a "sliver" resembling tubing or hose, a couple of inches in diameter and wound into a ball. A number of these card balls, as they are called, the product of the first "breaker," are put into a rack, and the ends of the different slivers are taken together and put simultaneously into the second "breaker," which is practically a duplicate of the first. Annexed to it is a condenser, which is fed simultaneously by a number of ends from the second "breaker," just as the second "breaker" is fed by the card ball from the first "breaker" and Bramwell feeder. The object of the condenser is to separate the broad sheet of carded wool which passes over the revolving cylinders. This was accomplished originally by placing rings called "doffer rings" of rubber upon the surface of the cylinder over which the wool was passing. The effect of these rings was to separate the sheet of wool into numerous separate "slivers." But the old process of separating the wool by "doffer rings" has been superseded by a machine called the Bolette condenser, patented in England in 1885. It has been in use here a couple of years. The Bolette condenser consists of steel knives or blades placed upon the cylinder instead of the "rings." In the Bolette condenser there are ninety of these blades. As the knives cut the wool cleaner than the "doffer rings" they can consequently be placed at closer intervals. As the result of this by increasing the thickness of the sheet of wool on the cylinder and by placing the knives much closer together, more ends can be produced by the Bolette condenser than by the old process. The ratio is ninety ends from the Bolette condenser against sixty ends by the old process. The sliver as it comes from these machines is reeled on the spools.

It is not necessary to pause at the spinning room, which contains four sets of self-acting mules. Nor can much be said about the twisting and reeling room of interest to the reader, except the single

yarn is here doubled and made into two, three or four-ply yarn. All these machines are English patent and none of French.

It has been stated in the former part of the paper that worsted drawing and spinning was done at Fairmount as well as at Tacony. After the wool has been combed by the noble comb, it is brought to Fairmount, and taken to the drawing and spinning room in the condition of what is known as "worsted tops." All the machines in this room are imported. There are eight sets of drawing machines and forty-five spinning frames. The drawing frames consist of "gill boxes," through which the "sliver" is put in order to level and condense it. Each operation of the drawing reduces the size of the "sliver," until the last product known as roving is completed.

As all this process of drawing and spinning was described in the first part of this sketch, it is scarcely necessary to say that the operation of drawing is accomplished by a strong draft or pull upon the "sliver" as it passes through two sets of steel rollers, running at different speeds, the front rollers working more easily than the back. The result of this action is to elongate the sliver and decrease its size proportionately. The difference in speed varies from four to ten. The bobbins on which the "sliver" is reeled are afterwards taken to the spinning room; there are eight sets of drawing frames altogether; the drawing frames are made by Prince, Smith & Son, Burlington's Shed, Keighley.

The spinning room contains forty-five machines, they are all for worsted spinning, and are made by the same party. The thread can be twisted into three or four threads according to desire. In the spinning machines, if the yarn is for filling, it is spun on to the bobbins and goes away in that condition, if for two-ply yarn, it is run on a twister and doubled. The twistors are called stop-motion twistors, the same kind as in use at Tacony, the principle being that if one end breaks, the spindle will stop. There are two kinds of spinning frames in use, one known as the "cap frame," and the other the "flyer." The cap frame is used to spin fine or medium yarn, and the flyer for the lower grade yarn, both of these machines are made by the same English firm of Prince, Smith & Son. The yarn is transferred from the bobbins to hanks or put upon dresser spools; in the process of spooling the imperfections of the yarn are taken out by the girls. Any yarn that is required for hanks is examined over sticks before leaving the factory to remove all imperfections.

This worsted mill at Fairmount is worthy of note as being the first worsted mill to use electricity for lighting. The mill contains a complete plant consisting of two dynamos, each of two hundred and fifty lamps, and are run by an Armington & Sims engine. The mill contains five hundred Edison lamps.

The engine used in the works is four hundred horse power made by Watts, Campbell Co. of Newark, New Jersey, steam being supplied



PHOTO-COLLOTYPE

SECTION OF DRAWING ROOM No. 2

WELLS & HOPE CO.

by four Babcock & Wilcox boilers of one hundred horse power each. This engine was put in in 1882, and supplanted three engines formerly used. The power is transferred by beveled wheels both of which are of iron, the large one five feet in diameter and the small one three. There are two pair of these wheels, one communicating the power to the east end of the mill and the other to the west. There is also attached to the engine an Ashcroft recorder to show the variation of the steam and to indicate when the engine starts or stops and whether it runs fast or slow. The factory contains finally a machine shop in which all repairs are attended to, all the spinning rollers used in the drawing and spinning frames are made here, also the aprons and all the gills and fallers are repaired here.

Labor.

There have been comparatively few changes in the help employed in the factory. Many of those employed in the drawing, combing and twisting department and woolen yarn department being the same that were there under John Yewdall. Most of the changes that occur are due to the younger help growing up and there being no vacancies for them they often seek employment elsewhere. Many of them own their own houses, the firm does not own any of the houses in which any of the help live. The firm has given a half holiday on Saturday ever since the mill has been running; this is now getting to be a pretty general custom, but this firm were among the starters of the movement. This was in 1871, when Fiss, Banes & Erben began to run the mills. At Fairmount work is stopped at one o'clock and at Tacony at three. In the different rooms throughout the factory separate rooms or closets are provided for the men and girls.





FREE HAND DRAWING ROOM.



GENERAL DESIGNING ROOM.

SCHOOL OF INDUSTRIAL ART.

Among the movements which have been made in recent years, in the direction of advancing the interest of the textile industries of Pennsylvania, the establishment of a textile school in which the knowledge and skill which underly all success in the conduct of these industries shall be successfully and thoroughly taught is certainly one of the most important, if not the most important of all.

Such a school has been established as a department of the Pennsylvania Museum and School of Industrial Art in Philadelphia, and the reader's attention is called to the following details of this undertaking.

The textile department of the Pennsylvania Museum and School of Industrial Art, was established in 1883, at first as an evening school only, but after a few months of experiment, as a day school as well.

The above institution had for several years maintained classes in applied design, and had striven to make its work as practical and as directly applicable to the requirements of the textile industry as was possible without the appliances and the technical instruction necessary to impart a knowledge of the industry itself; but it was found in practice that much more than this would have to be done, either to fit its students for positions of responsibility and leadership, or to advance the character of the industries represented, in the direction of rendering them truly independent of European precedents and traditions.

The institution has, however, always been hampered by the inadequacy of its resources, and was only enabled to develop this much needed department, through the support and coöperation of the manufacturers of Philadelphia. First of all, and more than all, through the intelligent zeal and unwearying efforts of Mr. Theodore C. Search. Mr. Search accepted the office of trustee of the school to which he was appointed by the select council of the city of Philadelphia in 1883, and at once set to work to utilize in connection with the organization possessed by the museum and its well established art school, such results as had already been attained by the manufacturers of the city, in their efforts toward establishing a school, devoted to the advancement of the textile interests of the city and State.

Such schools have long been recognized in Europe as indispensable to industrial prosperity and are not only liberally patronized by the governments of every country which makes any claim to be regarded as progressive, but are subjects of great civic pride in the cities where they are located.

Well-endowed and well-equipped textile schools exist, for example, at Leeds, Bradford and Huddersfield, in England; at Rouen, Amiens, Rhiems, Mulhouse, Lyons, Lille, Ghent, Aix-la-Chapelle, Verviers, Mulheim, Crefeld, Elberfeld, Chemnitz, Heidenheim, Zurich, Berlin, Prague, Reichenberg, Vienna, Stuttgart and other places, supported partly by the government, partly by the municipality and partly by the local trade guilds or associations.

It is perhaps safe enough to say that such schools are regarded as quite as indispensable to the industrial prosperity of the different States, and even of the localities in which they are situated, as schools of law and medicine are everywhere recognized as indispensable to the maintenance of anything like high standards in the professions which they represent.

Partly then, from a desire to advance their own interests by educating the workmen and designers employed in their own mills to do the higher classes of work which are of course always the most profitable, but largely and mainly, from motives of pure patriotism and philanthropy; to help raise the standard of American productions and to educate American youths in such a way as to enable them to occupy the positions as designers and superintendents now held almost exclusively by men who have profited by the advantages offered by the European schools, the manufacturers of Philadelphia raised among themselves the amount necessary to establish and equip this school.

The subscribers to the fund of thirty thousand dollars which was raised for this purpose, represent the progressive element of the manufacturing community of Philadelphia, the men whose energy and enterprise have made the city not only the first among American industrial centers, but one of the first in the world. These subscribers and the amount subscribed by each were as follows:

Thomas Dolan & Co.,	\$5,000 00	John Bromley & Sons,	\$1,000 00
John & James Dobson,	5,000 00	Thomas L. Leedom,	1,000 00
William Wood & Co.,	2,500 00	James Doak, Jr., & Co.,	500 00
John Yewdall,	2,000 00	H. Becker & Co.,	500 00
Fiss, Banes, Erben & Co.,	2,000 00	Andreas Hartel,	250 00
Conyers, Button & Co.,	1,500 00	S. B. M. Fleisher,	250 00
George & James Bromley,	1,000 00	Grundy Bros. & Champion,	250 00
Seville Schofield,	1,000 00	H. W. Butterworth & Sons,	250 00
Alexander Crow & Son,	1,000 00	Stead & Miller,	100 00
James Smith & Co.,	1,000 00		
M. A. Furbush & Son,	1,000 00	Total,	\$29,600 00

These amounts were subscribed as early as 1882, but with the understanding that they were not to be called for unless fifty thousand dollars should be subscribed, with which it was proposed that the projected technical school should be established under the auspices of the Philadelphia Textile Association, no alliance with any other organization being contemplated at that time.

The whole of the fifty thousand dollars was never subscribed, how-



CLASS ROOM. TEXTILE DESIGNING.



ROOM FOR COLOR STUDY.

ever, and the project seemed likely to be abandoned when the coöperation of the authorities of the Pennsylvania Museum and School of Industrial Art, made its execution possible.

The officers offered to set aside certain portions of the building occupied by the school at 1336 Spring Garden street for the use of such a department if the cost of its equipment and maintenance could be provided for from the fund which had been conditionally subscribed by manufacturers in the manner which has just been described.

Mainly through the efforts, as noted above, of Mr. Search, who virtually assumed at the outset not only the financial responsibility of conducting the department, but by far the greater part of the labor and care incident to its organization, this offer was accepted by the subscribers to the above fund, from which, with the addition of many valuable gifts of machinery and material from individual manufacturers, the entire expense of establishing and conducting the department was met up to 1887 when a portion of the fund appropriated by the State for the maintenance of the school became available for this department. A modest equipment consisting mainly of two Jacquard and four harness looms was provided and an evening class organized in the fall of 1883, and during the following summer an addition to the building, erected by means of a special subscription among the friends of the museum and school, was also placed at the disposal of this department.

Since this time its development has been rapid and the success which has attended it encouraging in every way. A department of industrial chemistry and dyeing was added in 1887, and every step in the processes employed in the production of textile fabrics is scientifically investigated and practically applied in the laboratories of the school.

Moreover, the students are brought, by means of the association of all this technical instruction, with the work of perhaps the foremost industrial art school in America, under influences, the importance of which it would be hard to over-estimate in their bearing on the future of American industry.

It is everywhere admitted that while the advances made by us during the last three quarters of a century have been simply marvelous on the side of mechanical ingenuity and invention, our standards of taste and the beauty of our designs have by no means been correspondingly advanced.

More and more the importance of much more liberal provision for instruction in art and design, with a distinctly industrial purpose, has been forced upon the attention of thoughtful men in recent years, and there is therefore an especial significance in the fact that the industrial features which assume so much importance in the educa-

tional movement which is here described, are associated with so direct and powerful an artistic influence.

The faculty of the institution consists of two professors and two instructors of drawing; a professor of modelling, one of chemistry, and one of textile design, two instructors in general designing, one in the practical work of weaving and related branches and one in wood carving.

All pupils of the textile department are required to devote a portion of each week to the purely artistic studies of the drawing and painting classes, as well as to complete the work of the class in mechanical drawing, it being expected of graduates that they will not only be thoroughly familiar with every process employed, skilful in conducting them and tasteful in designing for them, but that they shall be well trained in the principles of mechanics and able to exercise intelligent supervision over any branch of textile manufacture.

The leading manufacturers of machinery have responded very generously to appeals to supply the institution with the very best machinery, and the school now possesses an equipment which is reasonably complete.

Twenty-three hand looms and five power looms, besides card stampers and a great deal of other machinery, are at present in use in the weaving department, and the department of chemistry and dyeing is furnished in addition to very complete laboratory facilities for work in general chemistry, with a model dye-house and appliances for investigating and demonstrating the processes and materials employed in scouring, dyeing, finishing, and indeed all applications of chemistry to textile industry.

Friends of the enterprise have visited the best schools of Europe in the interest of the institution, and whenever methods were found superior to our own they were unhesitatingly put into practice, until to-day the management feel that they are entirely ready to supply the want which has so long been pressing on the country.

It is no longer incumbent upon any one to visit Europe for technical instruction in textile art, as this school is fully prepared to supply technical information on all subjects connected therewith.

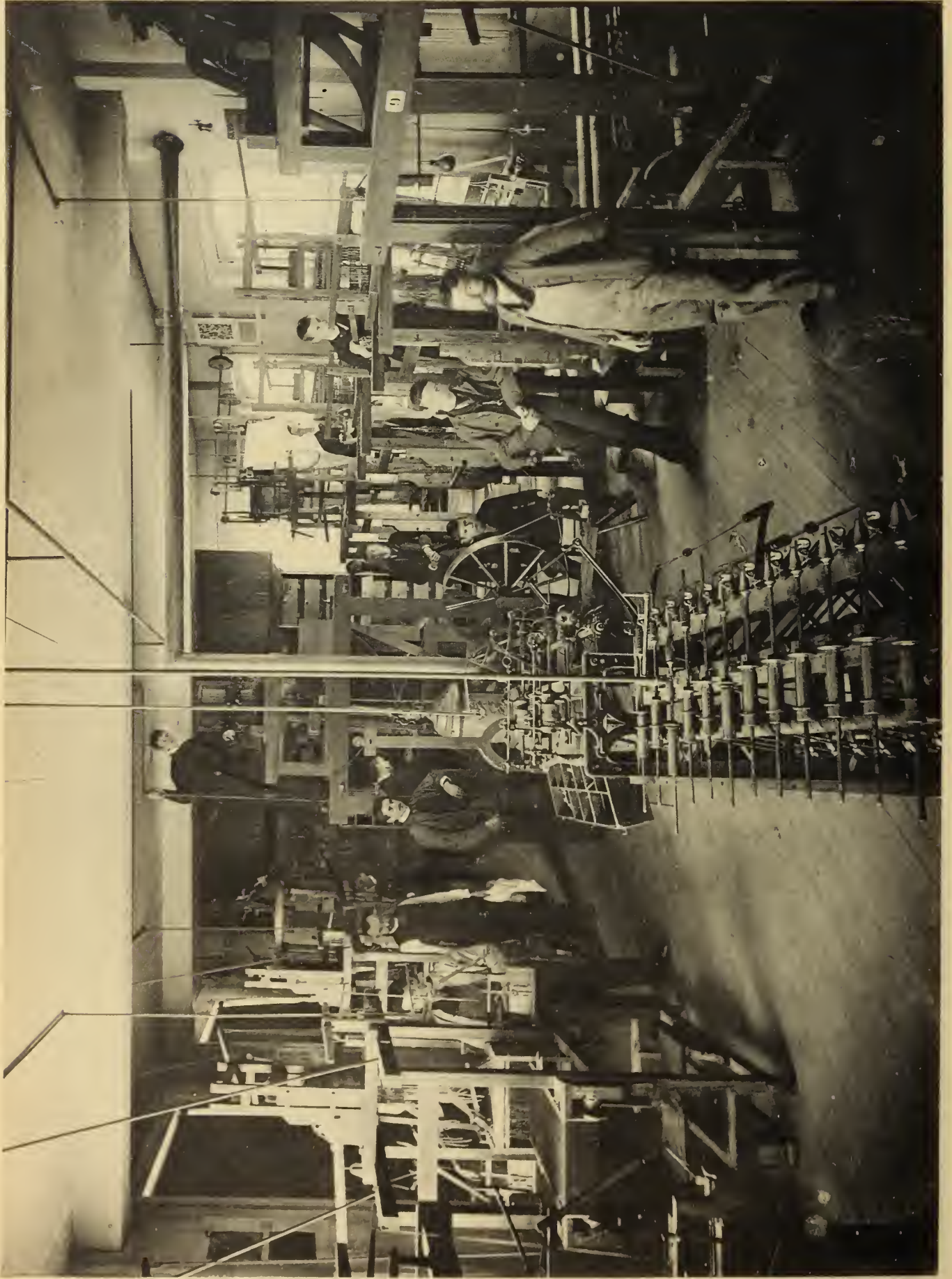
The school is located in the building, 1336 Spring Garden street, which has been purchased by the trustees with funds provided for this purpose by the associate committee of women, a body of energetic and public-spirited ladies of Philadelphia who have rendered most valuable and efficient service to the board of trustees since 1883, and who have contributed in all something like thirty thousand dollars to the support of the school.

The building was fairly adequate at first, but has been entirely outgrown within the last two or three years, and strenuous efforts are being made at present to provide ampler facilities.

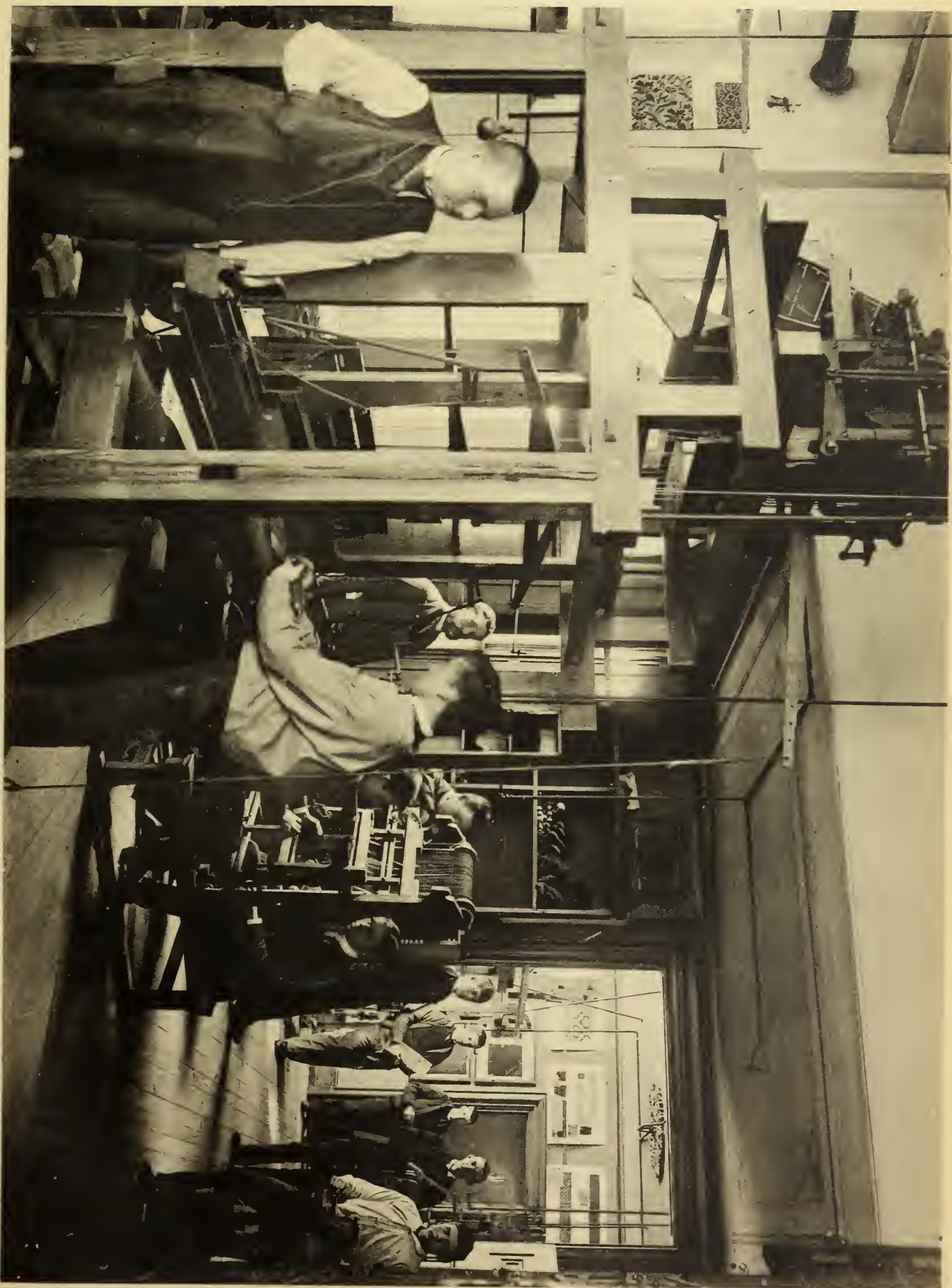
The present building contains a lecture room; a library and reading

LIBRARY
OF THE
MUSEUM OF NATURAL HISTORY





HAND LOOM WEAVING ROOM, No. 1.



HAND LOOM WEAVING ROOM, No. 2.

room ; a room for elementary work from casts and models ; a gallery for advanced work from the cast ; one for the life class : a room for the grinding and preparation of colors ; one for the work in applied design ; one for modelling ; one for wood carving, and a suit of rooms for the class in weaving and textile design. The chemical laboratory and dye house are located in another building close by at 1346 Spring Garden street.

The work in each department or class is carried on in a room by itself, so that the annoyances and interruptions inseparable from the assembling of large classes and different grades of work in a common room is avoided.

Students are expected to pursue a three-years' course, which includes in the first year a general study of materials used in weaving textile fabrics, explanation of the necessary materials and instruments used by designers.

Reeds and reed calculations.

Dressing of warps, and calculations for same ; beaming.

A scientific study of the hand loom.

Plain or cotton weave and fancy figuring through color arrangements in warp and filling, for light-weight fabrics.

Twill weaves and fancy figuring with the same through color arrangements in warp and filling.

Satin weaves single and double ; figured and plain.

Derivative Weaves.

Such as basket, rib and granite weaves, steep, curved, broken skip, corkscrew, fancy and pointed twills ; honey comb and pique weaves and combinations of miscellaneous weaves through combining for single fabrics two or more classes from the above.

Standard sizes of cotton, wool and worsted yarns and calculations with the same.

Picking out samples of fabrics constructed on single weaves, and methods and rules for calculating used in duplication.

Original weaves and complete orders for manufacturing the same, composed by each scholar.

Instrumental and Mechanical Drawing.

FREEHAND DRAWING.

Enlargement and reduction of designs ; analysis of plants for the purpose of design applicable to textile fabrics ; work in color ; lectures on color harmony.

Second Year's Course.

Power looms analyzed and explained.

Practical weaving and fixing ; the Thomas Wood roller loom for gingham, shirtings, cottonades, dress goods, etc., the Crompton loom,

and the Knowles loom for worsted and woolen fabrics of every description ; single and double beam work.

Double Cloth—Study of the best methods of combining different weaves, as design backed with weft ; designs backed with warp ; designs backed with warp and weft ; designs for double cloth, double faced.

Calculations, ascertaining the cost of production, etc., of different fabrics.

Analysis of single cloth (fancy) and double cloth fabrics, and reproduction with various changes, as indicated by instructor.

The Jacquard machine analyzed and explained ; principles of construction and method of operation of the single-lift machine ; the various modifications, such as double-lift single cylinder, double-lift double cylinder ; laying out of comber boards, and figuring for various changes in texture ; tying up of harness for single cloth.

The Bridesburg clipper loom analyzed and explained, and practical work with it, with special reference to its use in connection with the double-lift cylinder Jacquard machine for damask table covers, etc.

Card stamping machine (French index) analyzed and explained.

Practical work for single cloth.

Card lacing explained and practiced.

Sketching of designs and transferring from sketch to designing paper.

Methods of tying up Jacquard harness.

Changing of textures on Jacquard looms.

Shading of weaves in different Jacquard work.

Analysis of Jacquard work by picking out of textures and by sketching the design.

Special study of Jacquard work for the following textile fabrics : damask towels, table cloth, dress goods, two-ply ingrain carpet, three-ply ingrain carpet, upholstery, carriage covers, cloaking, dress trimming, fringes, Marseilles quilts, etc.

Study of processes for textile fabrics before and after weaving.

Instrumental Drawing.

Plans for machinery, mill buildings, etc.

Mechanical appliances used in weaving.

Sectional cuts of textile fabrics, etc.

Freehand Drawing,

Sketching for the different fabrics on Jacquard work.

Third Year's Course.

The ingrain carpet hand loom and the Murkland power carpet loom analyzed and explained.

Practical work with these looms.

Card stamping machine (American index) analyzed and explained.



LECTURE ROOM. CHEMISTRY AND DYEING.



LABORATORY. CHEMISTRY AND DYEING.

Practical work with these machines.

Tying up of Jacquard harness (French index) machines for double cloth, three and four-ply fabrics.

Advanced Work for Harness Loom.

Study of cut pile fabrics, velvets, plush, etc., and of Terry pile fabrics, with and without the use of wires.

Tapestry and brussels carpets; double-faced brussels, terry and velvet combined in Brussels carpet.

Astrakans.—Cut and uncut; figuring in terry and velvet principle.

Chenille.—Rugs, curtains, etc.

Gauze Fabrics.—Plain, figured and combined with other fabrics.

Advanced work in instrumental drawing and in free-hand drawing and design.

Throughout the last two years of the above course the following work is undertaken in the

Department of Chemistry and Dyeing.

This department was organized in the fall of 1887, and owing to an insufficiency of room in the school building, accommodations were obtained at the south-east corner of Broad and Spring Garden streets, a few doors from the main building. A large laboratory has been fitted up with accommodations for some thirty (30) students, and is well supplied with the apparatus, chemicals, and dye-stuffs necessary for carrying on experimental work in chemistry and in dyeing and finishing different fabrics. There is also a small dye-house in which the yarn used by the weaving department is cleansed, bleached and dyed, and in this way the students obtain a practical knowledge of the art of dyeing. The department is primarily designed to give the student that practical knowledge of the subject which will enable him to avoid the errors so often made by those who have no such knowledge, and also to train his powers of observation so that he will be enabled to detect and overcome faults in the various methods used in the textile industries.

With this object in view, the regular day students commence the study of general chemistry in the second year of the textile course. Lectures and oral exercises are given in the class-room and these are supplemented by work in the laboratory. Each student is supplied with a desk and the apparatus necessary for carrying on a sufficient number of experiments to demonstrate clearly the general principles of chemistry, with especial reference to its practical application to the textile industries. The student is encouraged to make original research of the various methods used in chemical and manufacturing work with the object of improving them if possible; and as this is done under the eye of an instructor who is careful to correct any wrong conclusions, the student is so trained in his faculties of obser-

vation that, when future difficulties arise, he will be able to overcome them.

In the second term the study of chemistry is continued by means of lectures, and in the laboratory the student commences the work of qualitative analysis, which is continued throughout the term.

Lectures are also given on this subject, and especial attention is paid to the analysis of those chemicals and dye-stuffs most commonly used. Also to the methods of detecting the dyes present on fibers and mordants used. The laboratory instruction is supplemented by excursions to manufacturing and chemical establishments where the processes, conducted on a large scale, can be seen in practical operation.

In the next, or third, year a course in quantitative analysis is taken up, and various methods of both volumetric and gravimetric analysis are taught. This includes the methods used for testing acids, alkalis, various chemicals, dye-stuffs, and mordants, such as sumac, indigo, tartar emetic, etc.

The study of industrial chemistry is then begun and carried on for the remainder of the year. Lectures are given on the method of manufacturing various chemicals and dyes. The different materials used in textile industries as cotton, wool, silk, jute, flax, etc., are considered, and the differences between them and their behavior toward chemicals and dye-stuffs carefully explained. Having studied the raw material, the different processes to convert them into finished cloth are taken up systematically, and the faults met with in each explained.

Taking for example the wool fibre, its source is first considered and then the variations occurring in it, due to differences in climate, breed of sheep and portion of the body from which the fiber is taken.

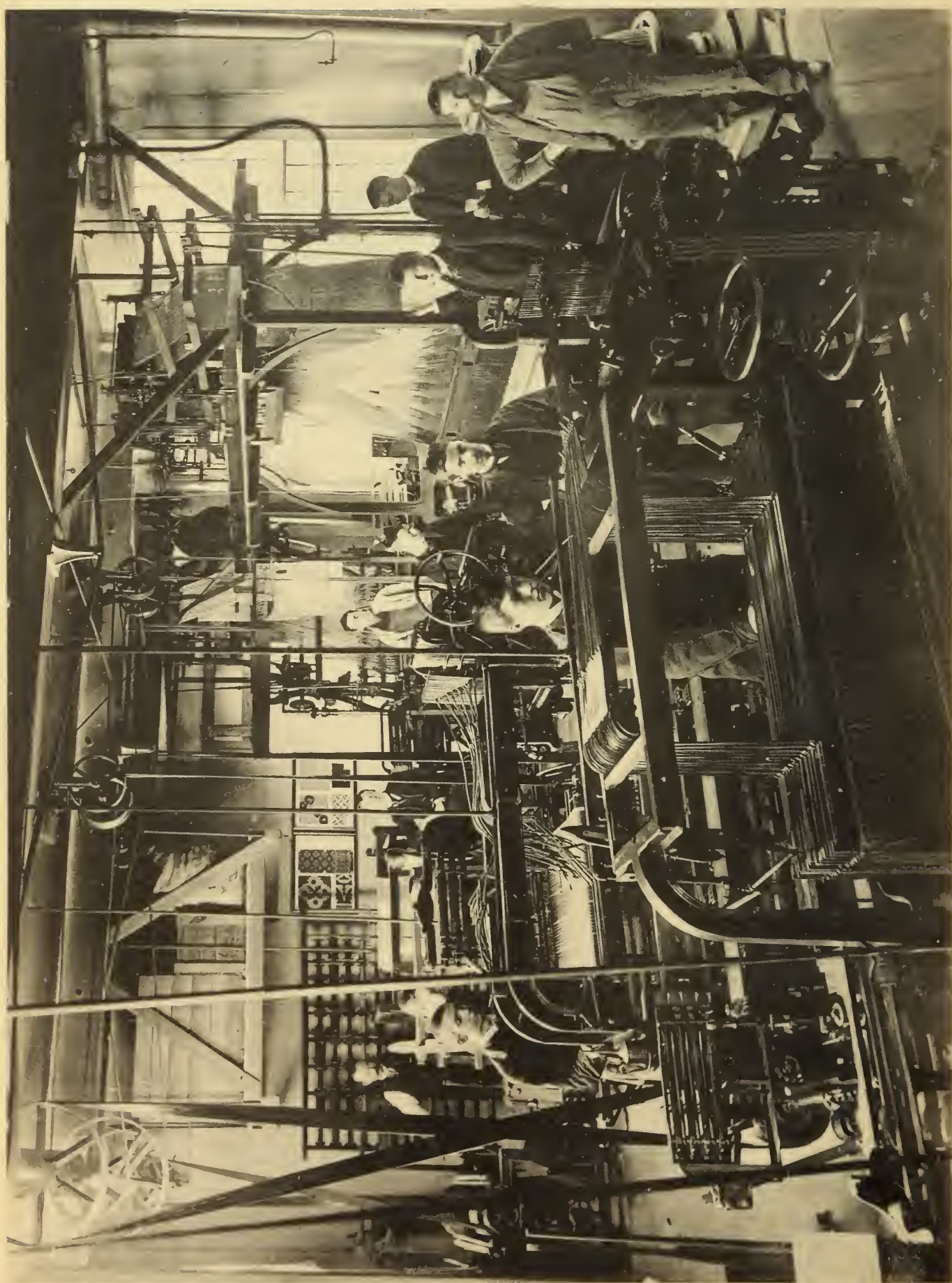
The method of scouring and the processes of carding and spinning, etc., are thoroughly studied.

The various conditions in which wool is dyed, as in the raw state, or in the form of yarn, or as woven into cloth are next discussed and the methods used in each given.

And finally, the methods of finishing the woven cloth are considered.

Particular attention is paid to the work of students in the laboratory in connection with the lectures, and each student is obliged to carry on experimental work in the methods used for determining the various materials employed, whether cotton, wool, silk, etc., and especially to detect them when mixed together in cloth or yarn. He then takes up each material, and carries on the processes of cleansing, bleaching and dyeing.

The action of the different mordants on the various dyes are considered, and their effect on the shade, as well as on the fastness of the color, determined. A great deal of attention is paid to the methods



POWER LOOM WEAVING ROOM.

of dyeing fast shades, and the process of testing dyed fabrics as to the fastness of their colors toward light and scouring is carried out.

Besides the experimental work in a small way, there is also a dye-house connected with the laboratory in which the students dye the yarn used in the weaving department, and in this way a practical knowledge is obtained of the subject. During the past year the students have taken yarn in the grease and carried out the entire process of scouring, dyeing and weaving it into cloth original in color and design, so that the entire work from the yarn in the grease to the woven cloth is now carried on at the school.

Evening classes in this as in other branches, supplement the work of the day school and enable a large and earnest class of pupils who would otherwise be unable to attend to profit by the advantages offered by the institution. The course consists essentially of the same topics as are taken up by the day classes. A full course of lectures is given in chemistry, and laboratory work is devoted almost entirely to experimental work in cleansing, bleaching and dyeing different fabrics. The full course covers two years and is divided as follows:

FIRST YEAR.

The general principles of chemistry are introduced by a series of lectures and experiments. At the same time work is commenced in the laboratory and some chemical experiments carried on by each student. The study of the different fibers follows, and the method of detection in mixed goods; the best mode of cleansing, bleaching and dyeing are given, and then the methods of finishing the woven cloth in order to obtain the best results.

In connection with lectures on these subjects, the student carries out experiments in the laboratory on small samples and new dye-stuffs, or methods are tested and their utility or uselessness shown.

SECOND YEAR.

In the second year the study of qualitative and also quantitative analysis, including both volumetric and gravimetric analysis, is considered, and the methods of testing acids, alkalies and various chemicals in common use in the dye-house are given. The study of dyeing and finishing is continued, with special reference to fast colors and such shades as give the most trouble in the dye-house. New dyes and processes are tested, and opportunity and assistance is given any student desirous of making special research of subjects directly appertaining to his line of business.

The school furnishes not only the first instance of work of this character being undertaken by an American school, it is doubtful whether certain advantages and merits do not attach to its methods—over those of even the best known of the European institutions. In support of this view is the testimony of several persons who have at-

tended this school after having been pupils of some of the best of those in Europe, and who cheerfully accord to the Philadelphia school the first place in regard to the advantages afforded.

These advantages consist mainly in the more adequate facilities which are furnished the pupil to carry all, or nearly all the work projected by him to completion. This is a phase of the plan of instruction to which comparatively little importance seems to be attached, and for the carrying out of which very slender provision is made in the European schools.

At Crefeld, for example, which is usually regarded as quite the model textile school in Europe, the looms are kept running but with no great variety of product, but with more or less distinct aim of producing goods which shall have a certain commercial value, and the pupils have the opportunity of assisting at their operations as any other juniors or apprentices might do, but except in rare instances as when one's design is selected at the end of the term from those produced by a whole class, the practical work at the loom has no relation to the design produced by the student.

In the Philadelphia school, on the other hand, the pupil has continually to carry his individual design to completion, performing or assisting at every process in its progress, from the preliminary sketch to the dyed and finished fabric. Whatever this last represents of taste, of knowledge, or of skill, whatever calculations are involved, the commercial ones, as well as those possessing artistic or technical significance, all must be the pupil's own.

There can certainly be little question as to which method is most likely to make him not only practical as a designer, but self-reliant and skilled as a director of other energies besides his own.

So far we have spoken only of the efforts of the founders and early promoters of this movement, but credit is also due to the appreciative interest which has been manifested in it by the State authorities ever since their attention was called to it in 1887.

Committees of the Legislature of 1887 and 1889 have visited the school and have expressed the most unqualified approval of its methods as well as its aims.

The chairman of the commission, President Atherton, of the State College, appointed by the Governor in 1887 to investigate the subject of Industrial Education, declared emphatically, after a thorough examination of its working, that nothing which he had seen in the course of his investigations of the subject intrusted to his committee had impressed him so much as the work of this school, and similar expressions of approval have been made on numerous occasions by probably every officer of the State to whose notice the movement has been brought.

Governor Beaver has, as is well known, expressed from the moment of his election, the warmest interest in industrial education and has



CARD STAMPING ROOM.

cordially approved of the recognition and assistance by the State authorities of the important service which was being rendered by this institution.

Since 1887 the school has received assistance from the State to the extent of ten thousand dollars a year, in return for which the school grants free scholarships, one for each county, to be filled by appointment of the Governor.

It is naturally a source of no little pride to our people that Pennsylvania should have been the first among American Commonwealths in the promotion of this movement, only the beginnings of a similar undertaking having been even in Massachusetts, which has in so many other departments of education assumed a leading position among the States.

Pupils have come from Arkansas, Connecticut, Delaware, Georgia, Massachusetts, New Hampshire, New Jersey, New York, Ohio, Oregon, Rhode Island, South Carolina, and Canada, as well as from Pennsylvania, and as has been said before, several former pupils of European schools have been in attendance, and have borne cheerful testimony to the superiority of the Philadelphia school.

It is an institution which is destined to reflect to an increasing extent, credit upon its promoters and upon the State, and it represents more directly perhaps, than any other single agency that could be pointed out, the most powerful influences which are being exerted to-day in shaping the industrial destiny of the Commonwealth.



ORGANIZATIONS OF GLASS WORKERS.*

THE FLINT GLASS WORKERS.

Around the earlier history of organization among the flint glass workers, time has cast the mist of uncertainty. The few living glass workers of the earlier day can carry us back no farther than several decades in authentic information touching this subject. Whether the condition of the men in the glass trade at that time was so comfortable that there was no necessity for such organizations as are found to be an absolute necessity to-day, we do not know.

The true reason perhaps is that workmen had not as yet grasped the idea of vast combinations of labor, and the rapidly expanding, newly-developing country, offered to the ablest in their ranks, many opportunities for entering other occupations. Many of the manufacturing firms of to-day were organized by former workmen and this may have been a factor, diverting the thinking men in the factory from the necessity for an organization of the employés.

Yet we find traces of the clash of interests even in this early stage. Thurston, writing of the earlier history of glassmaking, has an interesting item relating to the workmen employed by Bakewell & Page, in 1808.

He says: "This firm had many difficulties to contend with, among which were want of skill on the part of workmen, and their refusal to allow the introduction of apprentices." Continuing, the author says, "the intractability of workmen seems to have attended glass-making from the time of O'Hara & Craig, when it is mentioned that they were petulant, easily angered, continually threatening to leave, and opposed to apprentices, down to the present time, and calls for these comments, because of its appearing from the history of strikes in glass factories, to be an inherent trait in the disposition of glass workers."

This tribute to the early developed "kicking" propensities of the glass workers, will be read with a smile by both the men and the manufacturers.

* In pursuance of the plan adopted last year of giving an account of the principal labor organizations in the State, prepared by persons connected with them, the following papers appear in this report. The first paper on organizations among flint-glass workers was prepared by William J. Smith, president of the American Flint-Glass Workers' Union, and John Ehmann, editor of the *National Glass Budget*, of Pittsburgh, Pa.; and the other, on the Window Glass Workers' Association, was by James Campbell, president of Labor Association No. 300, Knights of Labor. [CHIEF OF BUREAU.]

Bakewell & Page are also stated to have imported competent workmen from Europe and to have been successful in the manufacture of flint glass. They turned out some cut ware that compared favorably in every way with European cut glass. Some years afterward, the cut-glass industry passed entirely out of the hands of Pittsburgh flint-glass firms and but little of this work which requires the most highly skilled labor, was made in this country. It was not until about 1860, that a number of eastern firms began to reintroduce the art, and to-day it again maintains its early ascendancy.

In 1836 we find the first sign of the "iron-clad" as similar documents are called in modern times. The existence of such a document proves, that the employer supposed it was necessary to suppress any combination among the workmen, for it expressly stipulates that "each one for himself, and not for the other, agrees to blow glassware for Christian Ihmsen." The latter, at that time, must also have been engaged in the flint and green glass business, for the same contract or iron-clad, after speaking of the window-workers, adds: "any of the undersigned who shall work at any time in flint glass, shall be allowed for every day that he is thus employed, to the amount of what he can earn upon an average while working in green glass."

This would seem to show that even as late as 1836, there were men employed in the glass business who could not only blow window glass, but worked in flint and green glass as well.

Sixty years ago there were but few factories that seem to have made a specialty of flint ware. Among these may be mentioned Bakewell & Page, organized in 1807, Union Flint Glass Works, in 1829, and the Fort Pitt, in 1831. In the eastern States, there were two flint houses, the Boston and Sandwich Glass Company, organized in 1824, and the New England Company, at East Cambridge, Mass., established some years prior to that date.

The division into different branches does not seem to have been so marked in the beginning of the century. In a letter written by Major Craig to Samuel Hodgson, of Philadelphia, in 1803, we find the following interesting passage: "With respect to our glass manufacturing, the establishment has been attended with greater expense than we had estimated. We have, however, by perseverance and attention, brought the manufacture to comparative perfection. During the last blast, which commenced at the beginning of January and lasted six months, we made, on an average, thirty boxes a week of excellent window glass, besides bottles and other hollow-ware to the amount of one-third of the value of window glass."

From this letter it can be seen that the workmen were required to have a more general skill and to be able to work at all the branches. We find allusion even made to the fact that the workmen had to make the pots, the materials for which had to be brought over the Allegheny mountains from the eastern States.

The comparatively undeveloped condition of the flint glass trade at this time, and for many years to come, the great skill required of the few men engaged in it, may explain why a labor union, such as exists to-day, was unknown, and perhaps unnecessary. The men, no doubt, had some crude form of organization, partly social, partly beneficial, but not until 1858 do we obtain any authentic account of the formation of a labor union among the flint-glass workers.

From 1850 to 1860 flint-glass plants, operating more exclusively upon special lines of ware, rapidly multiplied. This increased the number of workers and sharpened competition. The rapid growth of the glass trade was largely owing to a discovery by which the cost of glassmaking was considerably lessened. The art of making cheap lime glass instead of lead glass, which is more expensive, opened up a vast field for the consumption of this most useful product.

This prosperity, however, received a check through the disastrous panic of 1857, and the stagnation in business, together with the stress of increased competition for the dull market, impelled many employers to seek supposed safety by trenching upon what the workmen deemed their rights.

It is natural for men after performing their day's or week's work, to gather where a social glass of beer or ale enables them to enjoy a little relaxation. It is no less natural for the conversation to turn upon matters connected with their trade. Any grievance which one man might wish to discuss with another would naturally suggest itself, and it was out of such a gathering that the first important organization of flint-glass workers had its inception.

An old retired glass worker, named Michael Keenan, kept a tavern on Smithfield street which was patronized by members of that trade, and it was here that three men, named Daniel McAfee, Joseph Roseman and John Steen, conceived the idea of forming a glass workers' union. This took place about the beginning of November, 1858. These three men drew up a preliminary constitution and obligation, and called their proposed organization "The Glass Blowers' Benevolent Society." The utmost secrecy was observed, for if employers at that time would have had an intimation that any of their employes contemplated an organization to better control the price of their own labor, a prompt discharge would have followed. This would have been equivalent to an exile from the glass trade, so heinous was the offence of daring to form an organization.

It was not until the 18th of December, 1858, however, that the organization really began to exist, for on that evening a large number of men supposed to be worthy of the confidence reposed in them were initiated into the union by the founders. A permanent organization was formed by electing Joseph Roseman president, Jacob Strickel, secretary, and John Wheeler, treasurer. The first named is still alive

at the present day and has lived to see the present powerful organization of American flint-glass workers.

The Glass Blowers' Benevolent Union flourished and prospered up to the breaking out of the war. During the early period of the war a strike occurred at the Fort Pitt Glass Works against a reduction, and was lost. A second strike followed at the Independent Glass Works, and when this, too, was lost, the Glass Workers' Union virtually disbanded.

In the meantime local organizations had been established in eastern cities but no mutual tie seems to have bound them together. Like the earlier organization in Pittsburgh the first test showed their weakness.

Another reason operated to place the necessity for a labor organization in the background until 1866. The war created a great demand for skilled workmen, partly to supply the places of those who had enlisted and partly to supply the great demand for glass goods during that period. The number of glass workers rapidly multiplied, boys and apprentices were quickly advanced, and when the soldiers returned to the workshops they found a new labor element had been introduced into the trade.

The lack of organization sharpened competition among the men for employment and it was soon seen that an organized effort must be made to secure a more uniform system of wages and methods.

A call for the first national convention of flint-glass workers ever held was issued by the glass workers of Brooklyn, New York. A strong local organization existed in that city, and it took the first steps necessary to bring about a more general organization than had hitherto existed. The first national convention was held in Philadelphia in June, 1866, and was attended by delegates from all large glass centers. They elected James Smith, of Brooklyn, national president, and at the second national convention in 1867 he was again reelected.

After this the national union seems to have failed for want of sufficient interest in its affairs by the members. Local unions, however, were maintained with better success, but they exercised but little control on the question of wages and work. From the dissolution of this first general union in 1868, up to 1876, no effort seems to have been made to revive it or to establish any national union that would cover all flint-glass workers. Local organizations were numerous, but they rarely embraced more than a few factories within their fold. There was no sympathy, apparently, between them nor affiliation among their members. Each preserved its own autonomy and each was guided by its own councils. This want of sympathy, which was often openly expressed, was taken advantage of by the manufacturer to discipline the workmen and to reduce the cost of labor.

It will scarcely seem possible to the members of the present day when we state that, in the many wage troubles which multiplied from

1867 to 1868, employers found no difficulty in inducing the men of one locality to accept the places of men in another district. A notable instance of this want of harmony was given during the strike of the chimney workers in Steubenville, Ohio (to which we will allude again subsequently), in 1876, whose places were filled by men from the east. The latter were, at this very time, members of the Knights of Labor. Similar instances occurred at Bellaire, Ohio, and Chicago, Illinois.

In June, 1876, a strike occurred in the chimney trade against a reduction of ten per cent. in wages. The men at this time were unorganized, but this reduction of the manufacturers of their wages, thrust upon them the necessity of some organized opposition. The table ware glass workers had secretly organized under the Knights of Labor, and were known as L. A. 281. When this reduction was offered to the chimney blowers, they too naturally sought protection in the same fold, and in a short time a local assembly of chimney workers was organized, known as L. A. 319. This organized opposition proved so successful that by the first of September, the demand for a reduction in wages was withdrawn and the men resumed work. The prestige of this victory helped to increase the membership rapidly and it was not long before all the departments of the flint glass trade, except the gatherers of the chimney houses, were organized. The activity was not confined to Pittsburgh. The Pittsburgh assemblies sent out organizers to Wheeling, Bellaire and Steubenville and founded flourishing Knights of Labor assemblies composed of glass workers, in those cities.

A national organization might soon have sprung up composed of these different locals, but for a struggle which put the Pittsburgh and Steubenville assemblies to the severest test. This was the great strike of the chimney blowers against the patent crimping machine.

As this great strike of the chimney workers, lasted from May, 1877 until September, 1879, a period of over twenty-seven months, a more detailed account of it is necessary. In a measure it was subsequently one of the means of bringing all the different branches of the flint-glass trade together into the organization existing to-day.

In the spring of 1876 a patent crimper was introduced into the Fort Pitt glass works. Heretofore the crimping of chimney tops had been done by hand and two hundred and fifty chimneys constituted a "turn." There being two turns in a day for each shift of men, five hundred hand-crimped chimneys were regarded as a day's work. At the Fort Pitt, however, where this patent crimper was in use and where the work of crimping was done by a "crimping boy," operating this machine, the men were required to make fifty more chimneys for each turn, or one hundred more a day. This was equal to an increase of twenty per cent. in product, without any corresponding increase in wages. The managers of the Fort Pitt contended for their side, that the chimney blower was relieved of the work required by the hand

crimping process. While it had been customary to make only two hundred and fifty hand-crimped chimneys under the old style, yet when the worker made plain top, uncrimped chimneys, three hundred were regarded as a turn's work, or six hundred for a day.

It was reasoned on the manufacturer's side that no more work was required of the blower in making chimneys with the patent crimper (the boy doing the crimping) than if he made plain chimneys, with the boy polishing the top. Hence the Fort Pitt glass works demanded the same number of chimneys for a turn, irrespective of whether the top was to remain plain or crimped.

The men at the Fort Pitt yielded to the demand and the consequence was that this factory obtained a decided advantage in the market over its competitors.

To obviate this, Gill Bros., of Steubenville, O., demanded of their employés the same number of crimp-top chimneys made by hand as were made at the Fort Pitt with this patent crimper, which up to this time remained the exclusive property of that firm. The men refused to grant this and a strike occurred. A few remained at work, and to fill the places of the others, chimney blowers were brought from the east. To show the peculiar condition which the flint workers occupied only ten years ago, it is only necessary to state, that most of these eastern chimney blowers who accepted the places of western men, were members of the Knights of Labor. Many of the western men were also members of the same organization. To the trade-unionists of the present day, this lack of harmony and mutual coöperation of members of the same organization, will hardly seem possible, yet it shows a phase in the gradual growth of the flint-glass workers' organization.

Through this mistaken policy on the part of the eastern men, the Steubenville firm was partially successful and could place its product upon the market at prices that were ruinously low. The rest of the firms, particularly in Pittsburg, then made the same demand upon their employés, and it was strenuously refused. The manufacturers then purchased the privilege of using the patent crimper, from the Fort Pitt Glass Company. The result was a strike at the Excelsior Glass Works against the use of the patent crimper. The strike extended and soon became general, embracing even the employés of the Fort Pitt glass house, who up to that period had continued to work the machine. The firm of McBeth & Co., agreed to continue working on the old plan and thus no trouble occurred in that factory.

The contest was long and bitter. For one whole year the men held together without the loss of a single man. It was not until the employers introduced labor from other localities that any inroad was made upon the ranks of the strikers. One by one they went back to work. The workers eventually seemed completely demoralized. Iron-clad contracts were signed submissively and it was not uncom-

mon for four hundred chimneys to be made for a turn, or eight hundred for a day's work. This was an increase of sixty per cent. instead of the twenty per cent. at first demanded. Wages too were reduced at least ten per cent. Meanwhile the manufacturers themselves began to suffer from lack of uniformity in the output. The market was cut and slashed until the selling prices were ruinously low. The equilibrium which had been preserved by the men, was destroyed, and in the expensive race, manufacturers began to discover, that the destruction of this general uniformity of output and of wages, was an evil which reacted upon themselves.

A second patent machine was introduced which again complicated matters. It was called the patent opener and it opened and-shaped the lower end of the lamp chimney. It was the exclusive property of two firms, and in consequence those who were debarred from using it were in a serious predicament. Gill Brothers of Steubenville, conceived an original idea. They felt that with the skillfully trained hand labor, so long idle in Pittsburgh, they could make a better chimney than the other firms, providing a certain product could be agreed upon. This firm proposed to the few men who had still remained loyal to the union, to discharge all the eastern men whom it had used to defeat the men in 1877, providing the more highly skilled Pittsburgh men would temporarily make the same number of chimneys originally asked by the manufacturers, but a temporary reduction in wages. By so doing, the Pittsburgh manufacturers, could not compete with Gill Brothers, and, in sheer self-defense, a general uniformity would be suggested and no doubt agreed to as the wisest course for all.

This desperate remedy was tried and it was successful. It so aggravated the condition of the market that in self-protection all the manufacturers came together to devise a remedy.

It was agreed to dispense with the use of the patent opener and to establish a common basis. A general standard of chimney for a turn was agreed upon and accepted by the men. This restored uniformity, reduced the output, steadied the market and improved the condition of affairs. From that day to this no strike relating to wages has occurred in the chimney trade. Long and severe as this strike had been, and much as it reduced the membership, yet it did not totally destroy the organization of the men. In fact it was one of the means of extending the organization. It had convinced the men of the necessity of a more complete form of unionism.

The pressers and finishers who had been organized in Local Assembly 281, Knights of Labor, had contributed liberally to the support of the chimney blowers who were organized in Local Assembly 319. Later on a second assembly, called Local Assembly 320, was also organized, composed of the same branch. It was first proposed to form a separate trade organization inside the Knights of Labor. Dele-

gates were elected by the pressers, finishers, chimney blowers and window-glass workers to a central organization, which was chartered as District Assembly 8 of the Knights of Labor.

It will be observed that the window glass workers were represented in this glass workers' district. The window-glass workers were organized by the active members of the flint trade, and a strong sympathy thus existed between them, although the trades are widely apart. While events were now rapidly shaping themselves leading to the withdrawal of the flint-glass workers from the Knights of Labor, the window-glass workers still retained their membership and form to-day what is now known as Local Assembly 300, Knights of Labor.

The men had learned from bitter experience that a national organization was absolutely necessary to prevent the men of one section from being used to defeat the men in another part of the country, while on strike. An organized support of strikers was also found to be a necessity, because the members had learned that reductions of wages or increase of work in one place was sure to be followed by a similar demand all over. Hence the idea of a national organization, with an organized national resistance fund, met with general favor. Another feature assisted in making this movement necessary.

In many of the factories wide differences existed as to the "numbers" required of certain articles for a turn's work. The wages paid for a turn also differed widely. In changing their employment from one factory to another these diversities were soon discovered by the men. If individuals, however, caused any trouble or disturbance in a factory by recounting these differences to their fellow-workmen, they were promptly discharged, and they found it difficult to secure work in other factories.

The only remedy for this want of uniformity among the different factories, was seen to be a national union, and when in May, 1878, the call was issued by the Pittsburgh locals for a national convention of flint-glass workers, it was enthusiastically approved.

The work, however, had to be done secretly so great was the fear of discharge and blacklisting. After considerable corresponding it was finally arranged that the first national convention should be held in Pittsburgh in July 1878.

Pursuant to this call, eleven local unions of glass workers assembled in District hall in Conway's building on Twelfth street, south side, Pittsburgh, July 1, 1878. The cities represented were New York, Wheeling, W. Va., Philadelphia, St. Louis, Bellaire, O., Steubenville, O., Pittsburgh, south side, and Pittsburgh, north side. The Pittsburgh delegation was composed of nineteen members who formed a majority of the convention. The delegates from the other cities numbered just fifteen, and the total number of delegates at this first national convention, was thirty-four.

The different branches represented by these thirty-four delegates,

were the tableware department, chimney blowers, iron mold blowers, paste mold blowers, castor place workmen and flint bottle blowers.

The first work to which the convention applied itself was the correction of the evils growing out of the inequalities in wages and numbers constituting a turn. It provided for the appointment of a committee to gather statistical information in regard to the wages, and numbers, with the ultimate view of making the cost of production equal. It also provided for the formation of a strike fund for the support of men out on a strike, for at this time the long strike of the chimney blowers were still on. It was seen, however, that some control must be exercised to prevent hasty or ill-considered strikes. It was therefore provided in the constitution that no strike should be considered legal or entitled to support until it had received the approval of a majority of the eleven vice presidents, one from each local union. To meet any case of supposed urgency, a constitutional proviso was added making it unnecessary to wait for the verdict of these vice presidents, "in cases of extreme emergency." Experience, however, afterwards taught the members that every strike was considered one of "extreme emergency," and thus the proviso nearly neutralized the restraint intended to be exercised by the main portion of the clause.

The officers elected by the first national convention of flint-glass workers were as follows: President, R. A. Steen; vice presidents, Edward Malone, Henry Rohm, W. C. Stewart, James McMullen, V. A. Williams, Francis Evans, James Phillips, Thomas Smart, James Martin, Francis Wood and John O'Malley; recording secretary, R. Moore; financial secretary, George Egler; corresponding secretary, Benjamin Rubrecht; treasurer, W. J. Smith.

The newly organized union was put to a severe test in the first year of its existence. With a membership scarcely exceeding twelve hundred, it had on its hands at the very time of its formation, the great strike of the chimney blowers with about three hundred members to be assisted. Soon after, another branch of the flint-glass trade, became engaged in a strike that was in no way inferior in its extent and importance to that of the chimney trade. Over three hundred and sixty members employed in the tableware factories became involved in a strike, owing to a demand for more uniformity in wages and numbers of articles constituting a turn. To understand the importance of this uniformity more clearly, it is necessary to explain that the men had been paid by the piece, and the prices for the same article varied so much in different factories as to be a source of constant contention between employers and employed. If A. had persuaded his men or forced his men to yield to him a certain extra product above the average, customary in other factories, B. would soon discover that A. was able to undersell him, and demand the same concession from his employés. In this way the men were required to yield an ever increas-

ing output, the tendency being to make the highest number the standard for a day's work.

To check this tendency and to relieve themselves of the contention arising from it, the employés decided to establish a uniform list which would place all employers upon an equality. They did not expect to meet with any trouble for the reason that the manufacturers had frequently assured the men that uniformity was all they desired. But when the men put this declaration to the test by presenting a uniform list, it was found that the uniformity desired by the manufacturers was a recognition of the highest output, while the workers naturally favored the lowest. The workers' list, however, met so much bitter opposition, that it was withdrawn and things permitted to remain in the same condition as before. This withdrawal on the part of the men was regarded as a sign of weakness by the manufacturers, who then determined to take advantage of the situation by insisting upon a change in the system of working "gatherers" which virtually amounted to a reduction of wages.

This attempted change on the part of the manufacturers was the exciting cause of what is now known as the "green-hand strike" in the tableware industry. It lasted for nine months and was one of the most bitterly contested wage struggles which the glass trade has ever known. The peculiar name given to this strike arose from the fact that after the manufacturers had vainly tried to persuade members of the union to foreswear allegiance, they resorted to the desperate plan of hiring "green" help. They determined to teach the trade to this unskilled, inexperienced labor and it proved to them a most costly experiment. While it is now known that the manufacturers sank an enormous sum of money through this green-hand experiment, yet to a certain extent it aided them to encompass the defeat of the union.

About three hundred and sixty members were engaged in this memorable struggle, and when it is considered that the strike of the chimney blowers was still unsettled during this whole period, it will bear wonderful testimony to the earnestness, tenacity and determination of the men, when we find that the organization though temporarily weakened in numbers, still remained intact and at once began the work of recruiting its wasted energies.

In addition to the men on strike in Pittsburgh, a strike in the tableware department occurred in Bellaire, Ohio, involving sixty members, another of bottle blowers at St. Louis, in which twenty-five men were engaged, and a strike of six bottle blowers in Wheeling. Aside from these troubles there was little that occurred worthy of note until the assembling of the second annual convention at Brooklyn, New York, in July, 1879.

In addition to the localities that were represented at the previous convention, delegates were sent from Meriden, Conn.; Hamilton,

Ont.: Boston, Mass.; Sandwich, Mass.; New Bedford, Mass.; Millville, N. J., and Port Jervis, N. Y. Although only thirty-three delegates assembled at the second convention, they represented an increased membership.

Among the important action taken by the convention was a change in relation to the manner of legalizing strikes. The first convention had left the legalization of strikes in the hands of a majority of the national vice presidents of which each local had one. At this convention a proposal was made to take it out of the jurisdiction of the vice presidents and transfer the power of declaring a legal strike, into the hands of five presidents of local unions. This proposal led to a discussion during which a substitute was offered which provided that no strike should be declared legal until the grievance had been sustained by a vote of the majority of the locals. The proviso, however, exempting "cases of extreme emergency" was still retained. To still further curb the tendency for exaggeration or misrepresentation of any grievance and to prevent any hasty or ill-considered action, steps were taken to rigidly and impartially investigate all complaints and endeavor to obviate all trouble by first exhausting every means to secure an honorable and satisfactory settlement. Any set of men striking in violation of these constitutional provisions could receive no support from the organization.

Other important action taken by the second convention limited the number of "turns" which constituted a week's work and forbade any over-time. This action was found necessary owing to the selfishness of members who increased the week's output by extraordinary exertions and thus created a tendency to establish this high rate as the standard for a week's work.

The effort by Pittsburgh tableware workers, to establish uniformity in the tableware department, has already been noticed. Heretofore all efforts to secure uniformity had been purely local, but at the second annual convention we find the first trace of any effort to establish a national uniformity. It was here decided that Pittsburgh was to be recognized as the western standard and Brooklyn, New York, as the standard for the eastern factories.

A significant feature of this convention was the adoption of a resolution which provided for the fine, suspension or expulsion of any member coming to his work in an intoxicated condition. The members were also expressly forbidden to uphold any member who was discharged for this reason.

During the next year but little occurred to mar the peaceful progress of the organization. Two strikes took place, one at White Mills, Pa., and the other at Philadelphia. The latter was instituted without the sanction of the trade. Its projectors sent their representatives to the following convention at Philadelphia in July, 1880, and endeavored to have it legalized upon the ground that it was a case of extreme

emergency. This action gave rise to a bitter contest over the "extreme emergency," clause in the constitution. The conservative members realized that this provision gave a most dangerous scope for the inauguration of ill-considered strikes and tried in various ways to have it either stricken out or its license restricted. These efforts were unsuccessful, however, and the subject was laid upon the table for one year. The only additions to the localities represented in previous conventions, were Martin's Ferry, Ohio, and White Mills, Pa. Thirty-three delegates were at the third convention, representing a membership of 1,747.

This convention is also memorable for having been the first to take any steps looking towards an annual suspension of work during the hot season. The causes for this proposed action can be briefly stated. The men claimed that the hot months were more suitable for annual repairs than the cooler season, that an annual inventory of stock could be more conveniently taken, and that by making the stop simultaneous in all factories, all manufacturers would be placed upon an equal footing. The excessive heat, it was claimed, prevented the men from doing justice either to themselves or employers, and entailed an unnecessary loss. The stoppage of work would not unfavorably affect production, but would give steadier employment during the working season. The measure was defeated, but the reader will afterwards see it made a part in every agreement between manufacturer and employé.

The fourth annual convention assembled at Wheeling, W. Va., with 38 delegates present, representing 1,900 members. In the interval between the third and fourth convention, strikes occurred at Boston, involving 25 members, and in New York, involving 51 members, and ending in favor of the men. Both of these strikes were of very short duration.

Among the important legislation of this convention may be noticed the adoption of a resolution providing for suspension of work in the prescription houses during the months of July and August. An amendment to make this resolution apply to all branches of the flint trade was defeated. A resolution was also adopted requiring members to give one week's notice of their intention to leave.

An effort was also made to establish arbitration as a means of settling strikes, but the resolution did not carry.

The first action towards regulating the apprentice question was taken at this convention. Two apprentices were allowed for each furnace in prescription houses.

At this convention the old question of uniformity in wages, pressed itself upon the attention of the delegates. A wage list was made governing the wages of all prescription houses. This was the first printed wage list made by the American flints.

During the interval between the fourth and fifth annual meetings, the flint glass-workers of the following localities were admitted to

membership in the union: Parker's Landing, Pa.; Leesdale, Pa.; Rochester, Pa.; New Glasgow, Nova Scotia; Iowa City, Iowa; Ottawa, Ill.; Tarentum, Pa.; and Ravenna, O.

The only strike during this period for which pecuniary assistance was necessary, was a strike of bottle-blowers at Sharpsburg, Pa. About \$500 strike benefits were paid, and it ended unfavorably. Unimportant strikes took place at Ottawa, Ill.; New York and Wheeling, but no financial assistance was found necessary, as they terminated amicably.

At the fifth annual convention which assembled at Brooklyn, New York, sixty-one delegates were assembled, representing a membership of 2,100. The most important action taken at this convention was the adoption of a resolution making the annual summer stop apply to all departments of the flint-glass trade for a period of at least six weeks. This resolution was adopted after a spirited discussion, by a vote of forty-three to four. A uniform list was also adopted for the chimney branch. Among other matters coming up at this convention was an attempt to establish an inter-changeable card with the green-bottle blowers, which was not adopted. The apprentice law for prescription houses was modified from two apprentices for every furnace to the same number for every twenty-five blowers.

During the year preceding the sixth convention, new locals were established at Watercure, Pa.; Alton, Ill.; Butler, Pa.; Glassboro', N. J.; Massillon, Ohio; Wallingford, Conn. Strikes occurred at Rochester, Pa.; Watercure, Pa.; and North Wheeling, W. Va., involving about one hundred men. The strike at Rochester, Pa., was against a reduction in wages, and ended in the defeat of the men, causing the disruption of the local union. The Watercure strike was against an increase of numbers and ended in a compromise. The North Wheeling strike was against an increase in numbers and ended in the defeat of the men. Strike benefits were paid amounting to about \$5,000.

The sixth annual convention assembled at East Cambridge, Mass., with fifty-nine delegates present, representing 2,250 members. Upon the assembling of the convention it was found that the six weeks' summer stop had been observed by every local union except Philadelphia and Boston. The members at these points were immediately instructed to observe the rule, and the request was complied with. The summer stop law was reaffirmed and stringent penalties provided for its violation. The "extreme emergency" proviso in relation to strikes was modified so as to apply only to cases where the manager of a factory refused to allow them to work pending the action by the national union.

At this convention the president again called the attention of the national organization to the influx of foreign glass workers to whom preference was given over members of the union. A resolution was

adopted directing the national officers to correspond with the officials of the foreign glass workers' union in England, notifying them that there was sufficient home labor to fill all vacancies in the trade and requesting them for the common welfare of the trade, to advise their members to remain at home.

During the time preceding the seventh annual convention, new locals were organized at East Cambridge, Mass.; South Boston, Mass. and Canton, Ohio. A strike occurred at Corning, N. Y., in defense of the right to belong to the organization but the men were defeated and the local union disrupted. A strike occurred among the Pittsburgh bottle-blowers against the employment of apprentices in excess of the union rule. In this the men were also defeated. At Montreal, Canada, a strike took place against the importation of cheap foreign labor and it too ended in the defeat of the men. In Brooklyn, N. Y., a strike took place against the dockage system, which ended in favor of the men. A second strike took place in the same place later on against dockage and also ended victoriously. About \$16,000 were paid out in support of these strikes.

During this year the American flints also contributed the sum of \$672.00 towards the assistance of the window-glass workers who were on strike for five months against a reduction. This generous donation to another labor organization was acknowledged by Secretary F. M. Gessner of the window-glass workers and a pledge given that should the American flints ever need assistance in their turn, the window-glass workers would not forget the kindly deed.

Twenty-eight members of the American Glass Workers' Union at Rochester, Pa., were locked out simply because of their membership. After a long struggle the firm defeated the men and the local union was again disrupted.

At South Boston, Mass., a strike occurred involving twenty-four men against a reduction of fifteen per cent. The firm failed and the factory has been closed ever since.

The seventh convention occurred at Pittsburgh, Pa., in July, 1884, with seventy-six delegates present representing 2,350 members. The mold makers applied for admission to this convention but their application was unfavorably acted upon.

So many strikes occurred during this year that the attention of the members was again directed to the necessity of formulating some plan of preventing their recurrence. The conservative members had pointed out the danger contained in the "extreme emergency" clause, as an encouragement to hasty and ill-advised strikes and at convention after convention, endeavored to have it stricken out. But up to this time a modification, defining what should constitute an "extreme emergency" was all that had been accomplished. But at this convention the reports of the officers showing so many strikes, seemed to

confirm their reasoning and when they again renewed their efforts to have the clause stricken out, they were successful.

An attempt was again made at this convention to repeal the annual summer stop law. This movement was strongly supported by some of the eastern delegates and it was the subject of such obstinate controversy, that at one time it threatened to disrupt the organization. The opponents of the summer stop, reasoned that they could not afford to stop during the hot months, because, as a rule, they had to stop during the winter months. Those favoring the stop argued, that if there were a general cessation of work in the hot summer months, the men would have steadier work in winter. They held that work would be more continuous during the cooler months and that the average number of work days in a year would not be lessened by the observance of the annual vacation. In the closing hours of the convention when disruption over this question seemed imminent a reconsideration of the summer stop law was carried by a majority of one vote and a motion adopted, repealing the six weeks' stop law of the general flint branch for the year 1885, but to observe it for the current year 1884. Although this repeal carried, it will be interesting to note that the general sentiment among the men and many of the manufacturers was such that in the summer of 1885, an almost general cessation of work varying from four to eight weeks took place. In connection with this question, and tending to show how strong was the feeling aroused, we will mention that in Steubenville, O., several members of Local Union No. 8, were arrested for conspiracy in July, 1883, for persuading men to refrain from work during the summer stop. The men were however acquitted of the charge.

During the year following this convention strikes were numerous. The entire glass trade was suffering a severe depression, and, in consequence, demands were made upon the men for a reduction in wages. Strikes against reductions occurred in one factory at St. Louis, eight factories in Pittsburgh, one at Tarentum, Pa., one at Parker's Landing, Pa., and at Ottowa, Ill. Besides these a lock-out took place in the Ohio Valley, embracing five factories in Bellaire, O., one in Bridgeport, O., and two in Martin's Ferry, O., involving about three hundred members of the union. The number of men on strike, or locked out, was about six hundred, or one-fifth of the entire membership. The Ohio Valley lock-out lasted from December 13, 1884, until late in September, 1885. It was caused by a refusal on the part of the men to change from "turn work" to "piece work." The members of the union at Pittsburgh worked under the piece work system, while in the Ohio Valley turn work was the general custom. Under piece work an employé was required to make a given number of articles at a given rate of wages, and if any of these articles were broken after leaving the hands of the workmen, or were defective in finish, he was held responsible and docked for the same. Under turn work the workman

was expected to make a given number of articles at a given rate of wages; but, whether good or bad, or whether the number was completed or not, the workman was paid full wages for his time. The ostensible cause of this lock out was the demand for a change to the Pittsburgh system of piece work, but the real cause was an attempt to crush the organization; for, when the men asked for time to consider the proposed change, the manufacturers replied by closing their factories. Later on, when the men offered to concede Pittsburgh moves and wages, under such precautions as would prevent their labor from being stolen, the manufacturers rejected their offer and refused to recognize the union. Subsequently the settlement was made upon the basis proposed by the men. The money paid out in actual cash in support of the locked out-members, for the entire period of its duration, amounted to \$74,078.11. This is exclusive of what was paid to the striking members in other localities. The Pittsburgh bottle blowers' strike lasted from December 1, 1884, until January, 1886. It was caused by an attempt to reduce wages from ten to twenty per cent., and ended in a compromise. The actual cash paid to the striking bottle blowers amounted to \$32,000.

Exclusive of these strike benefits, other localities received \$15,107.44. Of the other strikes which occurred in this year the St. Louis and Ottawa struggles ended in a victory for the men, while the strike at Parker's Landing was settled by a compromise.

It can readily be imagined that the financial resources of the union were severely taxed during this critical period. They were much encouraged, however, by the financial assistance rendered them by the eastern division of green-bottle blowers and Local Assembly 300, composed of window glass workers. The green-bottle blowers loaned the American flint-glass workers \$1,000, and the window-glass workers donated the sum of \$612.99. These kindly deeds established cordial relations between these different organizations.

In spite of this severe test of the stamina of the organization, the membership increased to 3,200. Even those local unions who went through this ordeal lost but few members.

The eighth annual convention assembled in July, 1885, in Philadelphia, with sixty-five delegates in attendance, representing thirty-two local unions. The lack of concerted action on the part of the men and their frequent negligence or omission in the presentation of the rules and wage-lists adopted at previous conventions, had been found to be a source of contention and confusion. Local officers neglected to notify manufacturers of changes made in the list of articles and wages, and manufacturers would enter the market and fix the selling price of their products in blissful ignorance of these important alterations. When the executive officers would discover this carelessness or timidity on the part of local officers, an attempt would be made to force them to

adopt the standard list, and the effort was always accompanied with more or less friction.

The Ohio Valley lockout vividly illustrated to the delegates the importance of uniformity in the wage list. The manufacturers who had combined in that famous lockout, also sent a communication in which they stated the same. Their language was, "In order that we may know the union rules, or such rules as affect us in operating our works, we ask that all such rules be printed and a copy furnished to each manufacturer."

It was decided by the convention to have lists printed for every department in the flint trade and send them directly to the manufacturers with due notice, so that there could be no misunderstanding. We see here the first step on the part of the organization to establish closer relations with the manufacturers, and we shall see this step followed by others until at last absolute uniformity becomes a fixed custom recognized by both sides.

At this convention, the mold makers and Bohemian glass workers applied for admission. The mold makers were admitted, but the Bohemian glass workers, whose trade was supposed to be entirely distinct from the flint glass branch, were refused admission.

A resolution was adopted that a committee of six be appointed to confer with the window-glass workers and the green-glass workers, with a view of establishing a federation or mutual understanding to render assistance to one another in time of distress. A resolution was also adopted to appoint a committee to try and establish an interchangeable card system with the green-glass workers.

The offices of president and secretary were consolidated at this convention and the salary of the incumbent fixed at \$1,100 per annum. Previous to this time the officers had continued to earn their main support by still pursuing their trade, but the demands upon their time became so great, that it was found necessary to so arrange it, that at least one officer devote his entire time to the business of the union. President Smith was reëlected and performed the combined duties of president and secretary. His office was in his private residence, so economically was the administration of the organization conducted at the time.

John F. Hinckley was elected vice-president, and Edward Phillips, of Pittsburgh, treasurer.

The ninth annual convention assembled in 1886 at Hamilton, Ontario, with 107 delegates present. It was the largest convention held up to that time, and represented a membership of 4,500.

This increase in members was a remarkable evidence of the earnest spirit spreading in the trade. Despite the fact that assessments were heavy to support the men on strike, but few members tried to

shirk their share of the expense, and others did not seem to be deterred by the prospect of heavy financial obligations.

During the fiscal year ending June 30, 1886, the money spent for relief of striking members amounted to \$70,257.28. The greater part of this money was devoted to the support of the members locked out in the Ohio Valley, a full account of which has been given in the preceding pages. Aside from the members locked out in that bitter contest, 806 men were engaged in strikes in other parts of the country during the year, and the sum of \$23,792.57 was devoted to their support.

It was recognized that still stricter measures must be taken to reduce strikes, and at the convention it was enacted that no local union was entitled to receive strike benefits unless it had been in the organization for at least six months.

The success of the moldmakers in securing admittance into the American Flints at the Philadelphia session had encouraged the engravers, cutters, glass packers, Bohemian glass blowers and green-glass pressers to submit petitions for amalgamation. The latter organization would have been satisfied to arrange for an interchangeable card so that members of one union could obtain work in any factory controlled by the other.

The engravers and cutters were the only branches admitted to membership, the petitions from the other applicants being reported unfavorably. One reason for the action was the fear that the admission of new branches whose members were undisciplined in unionism, or but imperfectly organized throughout the country, would increase the number of strikes and become a source of weakness if not a fatal drain upon the financial resources of the union. The American Flints reasoned that these branches should first try to build up their ranks and give some evidence that they would impart strength as well as receive it in return.

During this period, the order of the Knights of Labor had a most wonderful growth. Its power seemed so vast, its numbers seemed to embrace nearly all industrial workers. It was natural for some of the leaders connected with this powerful labor society, to believe that trades unions had outlived their time. It seemed natural to suggest the amalgamation of all trades unions with the Knights of Labor, the former to adopt the plan of organization of the latter. Among many of the leading members of the trades unions, the sentiment was favorable to such an amalgamation, in the beginning. But serious mistakes made by over-zealous organizers of the Knights of Labor changed this feeling to one of independence and a determination to retain a form of organization, by which they held in their own hands, the conduct of their trade affairs. An unfortunate occurrence in Pittsburgh had served to awaken this feeling among the Flints. A number of chimney blowers had seceded from the American Flints,

many of them owing dues and assessments. They applied for a charter of the Knights of Labor. Protests were forwarded to the general officers of the Knights of Labor, not only by the officers of the American Flint glass-workers, but also by Local Assembly 300, composed of window glass-workers, who were already in the Knights of Labor.

In spite of these protests, the charter was issued and this unwise act awakened a strong feeling of resentment among the members of the union. Notice was served upon the seceding members that if they did not comply with the obligation they had assumed as members of the union, a strike would be inaugurated against them. Ere it came to this extreme, the matter, so far as it related to the seceders, was amicably settled and they returned to the union. But this incident had a far-reaching influence on other matters.

At the Philadelphia convention a resolution had been adopted favoring a plan by which all branches of the glass industry could form a federation. Delegates assembled in Pittsburgh, in February, 1886, representing the American Flint-glass workers, the window-glass workers, the Independent Eastern Green League of Bottle-blowers, and the Western Association of Green Bottle-blowers. A plan was formulated by the delegates, favoring the attachment to the Knights of Labor under certain conditions which would secure to them control over their own trade affairs, and election of their own executive officers. This plan was submitted to the members for ratification, but owing to the influence of the incident already narrated, the proposition was rejected by the members of the American Flints. A final effort was made, however, at the Hamilton convention to persuade the Flints to enter the order of the Knights. General Organizer A. G. Denny, was permitted to present the reasons for the desirability of such a course. He addressed the convention for half an hour and then answered questions with which the delegates plied him. But although a vote of thanks was tendered him for his efforts, his arguments failed to convince and the proposition was rejected by a unanimous vote.

At this convention the annual summer stop was arranged to begin the last Saturday in June and to end the first Monday in August. The sentiment in favor of this custom had increased so generally that but little opposition manifested itself to the resolution.

The moldmakers introduced a resolution regulating apprentices in their branch to one apprentice for every ten journeymen. The time of apprenticeship was fixed at four years.

A resolution was also adopted instructing the locals to demand pay for all glassware that was packed. To explain this, we will state that in some factories, it had been customary for the firm to condemn ware as defective, and for all such ware, the employés were docked. This did not hinder the firm from packing this "defective" ware and selling it. The members reasoned that if defective ware

was good enough to sell, it was just to pay the labor which produced it, and hence the resolution which demanded pay for all ware that was packed.

The increasing clerical work connected with transacting the business of an organization of that size, was seen to require additional office help. It was resolved to give the president an assistant secretary and both officers were to devote their whole time to the business of the union. The salary of the president was fixed at \$1,100 and that of the secretary at \$900. A permanent head-quarters was also opened in Pittsburgh and both officers were to reside in that city. President Smith was reëlected for the third time and Mr. W. J. Dillon, of Brooklyn, N. Y., was chosen as secretary. John F. Hinckley of Philadelphia, was reëlected vice president. The position of treasurer was united with that of the president and hence Mr. Smith served in that dual capacity.

During the year which preceded the convention at Atlantic City, twenty-four new locals were admitted and two lapsed locals were re-organized, this increased the membership to 5,200. The year was comparatively free from strikes as only 243 members were idle on account of labor disputes. The sum of \$19,582.08 was spent in strike benefits but a large portion of this, was in payment of benefits due to men involved in the strikes of the previous year. The comparative calm which prevailed during this period, was, however, the deceptive stillness which precedes the storm and the following year was to witness the greatest struggle of any that had tested the devotion of the members. This tremendous contest was destined to grow out of the ever-recurring question of uniformity in wages and moves.

We have already shown how each convention endeavored to approach nearer to this desirable end. The Atlantic City convention also took a step in this direction which we shall report in its proper place. One hundred and thirty-seven delegates assembled in Atlantic City, making this convention larger than any preceding gathering. The most important action taken was the adoption of the recommendation by the president favoring an annual conference with a committee representing the manufacturers to meet a similar committee representing the union. Such annual scale conferences had for some years been customary in the Amalgamated association of iron and steel workers and window-glass workers but up to this time were unknown in the flint trade. The delegates resolved to try it as an experiment in two departments, the chimney and bottle branch.

Immediately after the convention a committee met a similar committee representing the manufacturers. No difficulty was experienced in fixing upon a scale and rules for the ensuing blast. The agreement was brief. "We, the undersigned in behalf of our respective associations, hereby agree, that the foregoing prices and rules, shall continue in effect from August 13, 1887, until the last Saturday in June in 1888."

An agreement was made by the joint committee similar to that made by the flint bottle conference. Annual meetings were provided for by both conferences.

The Atlantic City convention resolved that all factories making flint ware should be governed by their scale. This had particular reference to those factories which belonged to the Eastern Green League, but whose product, being flint glass, was brought into direct competition with the ware made by members of the American Flints. This convention seemed to be thoroughly American in sentiment and passed a resolution fixing the initiation fee for all foreign glass workers at \$100.

In his annual report President Smith in alluding to the tariff on flint glass had made the following statement :

"The official report of the treasury department shows the imports of glass, other than plate, cylinder and window glass, bottles, vials, etc., to have been \$1,803,777 for the nine months ending April 30, 1887. Approximating the year's imports from these figures, their invoiced value may be placed at \$2,000,000. Estimate the undervaluation to have been thirty-three per cent. and the value of imports for the year will aggregate \$3,000,000, of which \$2,000,000 probably represents work such as would give employment to members of our society."

The report of the president also favored a specific rather than an *ad valorem* duty. A resolution was adopted instructing the executive board to take steps to secure, if possible, a higher duty on flint glass.

In the tableware department of the flint trade the variation in styles, designs, sizes and manner of work were so numerous, and the distinctions were sometimes so hard to determine, that it seemed almost impossible to secure any uniform basis. Yet this convention determined to make the attempt and formulated a move list for the tableware factories which was intended to remove existing inequalities and place all manufacturers upon the same footing. As the lack of this uniformity was a fruitful source of contention, it was hoped that the manufacturers would cheerfully agree to a system that would deprive anyone of having undue advantage over the other in output and wages. This wage list it was decided was to go into effect on September 1, 1887, and printed copies were submitted to the manufacturers. The matter was in this shape when the convention adjourned after having re-elected the old officers.

The year following the tenth annual convention at Atlantic City was the most trying and critical in the history of the American Flint Glass Workers. Severe as the tests of their fidelity had been in previous struggles, the gigantic lock-out of 1887-88 was to eclipse them all. At one period of this memorable contest, more than one-half of the membership was unemployed through the lock-out, and the as-

sessments upon the others, although heavy, were borne with little or no complaint.

The Atlantic City convention adjourned with uniform lists made for nearly every branch in the trade. A long stride had been taken towards securing the ideal of uniformity. The determination of the workers always had been to place all manufacturers on an equality. While this policy had no terrors for those who were dealing justly with their men, it gave no satisfaction to those who had secured advantages which enabled them to undersell the others. These firms wished to retain their special privileges. We have already seen that committees representing the manufacturers and workers from the chimney and prescription departments had met in joint conference and agreed upon a scale of prices. Only in the table, iron-mold, paste, shade, and blown ware departments, the scale was still undecided. The success which had attended the conference method of arranging wage scales, had prompted instructions to the various factory committees, to inform their employers when presenting the lists, that in case the lists were not acceptable, a joint conference might be held to consider them. This offer was in pursuance of the new policy upon which the union had now fully entered.

The table ware list as prepared by the Atlantic City convention met with considerable dissatisfaction on the part of the manufacturers, who were running on the piece-work system, while those operating on the turn-work system, accepted the scale that had been prepared for turn-work factories.

For a long time it seemed to be in doubt whether the piece-work factories would hold a conference with the employés. A number of firms were strongly opposed to meeting the workers. The manufacturers assembled to consult as to what action to take, and the majority finally decided to meet the representatives of the workers. This meeting took place on August 18, 1887, at Pittsburgh, Pa.

The manufacturers presented a document in which they stated that, "while we do not object in the main to a uniformity of work and wages for all factories, and are willing to concede that the system has merit if all factories engaged in the same line of business are included; we decidedly object to a change so radical and on so short notice, and without a conference with the other party so much more deeply interested."

They claimed that the list was not uniform, and that other factories were permitted undisturbed to continue working on a lower list. This probably had reference to the turn-work factories that had accepted the scale prepared for turn-work, by the workers, and the average of which was fully equal to that offered to the piece-work factories.

They objected "to the employés taking the whole matter into their own hands and formulating a list of numbers and wages to

force on the employers, and giving notice that it shall go into effect on a fixed day, near at hand, without asking at least a conference to discuss the question and to hear the manufacturers' side of it. It is not conducive to harmony to have one party attempt to force its views on the other, whether it will or not. Equalization is more likely to be accomplished by mutual regard for one another's interests, and good feeling maintained between employer and employés, by harmonious action on the part of both, than by attempting coercion." "To effect an amicable arrangement so far as in us lies, this committee has been appointed, to confer with a committee of your association. If met in the same spirit, we may expect a satisfactory result. As the time is too limited to furnish a scale of numbers and wages by the 1st proximo, we would suggest that the factories now in operation shall continue without change, and assurance to this effect given, that those still idle may be put in operation until a schedule shall be mutually agreed upon, for all pressed-glass factories, or until satisfied that such an adjustment is not possible."

The workers regarded the fact that they themselves had called this conference together, as a sufficient answer to this paper. They offered an amendment providing for a meeting of the joint committee on Wednesday, August 24, and as often thereafter as possible, until a schedule for piece-work factories should be agreed upon, and providing further that in the event of disagreement a thirty days' notice should be given of a stoppage of work. This amendment was adopted.

Pursuant to the amendment adopted a series of meetings was held, beginning on August 24 and continuing until October, during which an entire list of wages and numbers was agreed upon. The only question remaining to be settled was to determine how "gatherers" should be paid. The gravest and most difficult obstacles in the way of uniformity had been successfully overcome. The ideal of years seemed accomplished, and that without a single hour lost in a strike. Only a minor question remained to be disposed of, and yet it was this minor question which was to form the pretext for overthrowing all that had been agreed upon by the joint conference. Previous to this time gatherers (those who gather the glass from the pot and perform the most laborious and exhausting work) had been paid "leer count." By this is meant, that for all pieces of ware sent into the annealing oven, he had received full pay. The manufacturers, however, proposed that in case of any ware coming out of the annealing oven, or leer, defective, the gatherer, although not responsible, was to be docked as well as those who were directly responsible for the defective article. This injustice to a branch whose hard laborious work is perhaps already underpaid, was strenuously resisted by the workers, on the ground that it worked as a reduction in the wages of the gatherer, since in all factories there is an unavoidable percentage of loss in breakage of ware.

The manufacturers estimated this loss at from two and a half to four per cent., and offered to add the latter amount to the wages already agreed upon in order to cover the loss entailed by the change in system.

Although objectionable to the workers' committee, this offer was submitted in the interest of peace to the vote of those who were to be affected by the change, and by them and the other workmen in the tableware department, it was rejected.

As the manufacturers refused to recede from their last position, and the workers had already voted not to accept a proposition that they regarded as equivalent to a reduction in wages, there was no alternative left the workers except to give the thirty days' notice of stoppage of work. The notice was accordingly given, with some reluctance, however, to take effect November 25.

Meanwhile the prospect of thousands of workmen being out of employment in midwinter, suffering deprivation and misery, the unavoidable consequences of strikes made the union hesitate to assume the responsibility which such an alternative presented. A feeling still prevailed among many of the members that the harmony which had prevailed at previous joint conference meetings could be revived by another mutual conference. So many greater and more important questions had been settled by the earlier conference meetings that it seemed incredible that a question of minor importance should be the cause of a bitter and prolonged contest. They wished to avoid this alternative or if it could not be avoided, to place the responsibility upon the other side. Actuated by this spirit, the representatives of the union determined to ask for another conference, and in order to secure harmony if possible, were even willing to make some concession so as avoid the bitter struggle which they saw would ensue in case no agreement was reached. They, therefore, sent notice to the manufacturers of their willingness to hold another conference.

A few days later another meeting was held and the workers for the purpose of reopening negotiations withdrew their notice of the stoppage of work. They proposed to take two weeks in which to gather statistics in regard to losses by breakage, defective ware, etc., and to submit these, together with the manufacturers' offer, to a vote of the entire union. In case the union voted to reject the manufacturers' offer the workers' committee would agree to subject the question in dispute to the arbitration of disinterested parties. This offer was apparently accepted by the manufacturers and the men were arranging to gather the necessary statistics when the meeting adjourned. For some reason, however, the manufacturers reconsidered their acceptance of this proposition and notified the union of its rejection. This shut out the last chance of an amicable adjustment, and an assessment of one dollar per week was at once levied upon every employed member of the union in anticipation of the bitter contest.

Matters remained in this position until December 2, 1887, when the manufacturers' committee served the officers of the union with a set of new lists for five departments which overthrew all the previous work of joint committee and made a change against the workers ranging from two to ten per cent. Accompanying these lists was a set of rules some of which were very objectionable to the workers. Almost simultaneously these rules were tacked up in the various factories and given to the press for publication.

The tacking up of these rules so aroused the ire of the workers that on the 10th of December they withdrew their labor from all the factories involved in the original controversy. Not only had these rules been tacked up in the factories making tableware on the piece-work system, but committees were appointed from among the manufacturers to visit all houses whose employés were likely to supply funds to the union, to induce them to lock out such employés in order to cut off their supplies.

Many of these factories had already accepted the scale for the blast, but at the solicitation of the manufacturers' committee they joined the combination and on January 1, locked out their employés.

Thirty-eight factories employing over twenty-eight hundred members were embraced in this extensive lock out. This number for some time exceeded the number of those employed, upon whose earnings the assessment for several months continued to be \$1.75 a week.

Between January 1 and February 2 efforts were made to bring the two sides together with a view of compromise, but the efforts proved unavailing. The chimney manufacturers who had been importuned to join the combination against the workers but refused, now appeared upon the scene and submitted a paper to each side containing a compromise basis of settlement. The tableware manufacturers, however, refused to act upon the suggestion of the chimney manufacturers because of their refusal to enter into the combination against the workers. Meanwhile charges made by the workers of violation of the agreement against turn-work factories that had accepted the scale for the blast and afterwards had locked out their men, led the Central Glass Works of Wheeling, to offer to arbitrate the question involved in this charge. This offer was accepted by the men and they chose President Smith to represent their case while the Central Glass Works selected Mr. William Doyle, a Pittsburgh glass manufacturer. These two then agreed upon Mr. Augustus Pollack, a large tobacco manufacturer of Wheeling, for umpire. The decision which Mr. Pollack rendered was in favor of the union, and the result was that over two hundred men were put to work in a short time, thus decreasing the number of members on the relief roll.

On February 8th a meeting was held in Pittsburgh, at the call of the manufacturers' committee, but no agreement resulted. On February 29th, the manufacturers requested another meeting, and sug-

gested that four representatives be chosen from each side. The decision rendered in favor of the union in the arbitration of the Central Glass Works' controversy had undoubtedly quickened the desire of the manufacturers for a settlement. In addition to this, new factories were springing up in numerous towns and were finding a ready and profitable market for their products.

For several weeks the joint committee continued at work upon another list. Numerous changes were made and new lists for four of the departments were finally agreed upon. The departments were the tableware, shade, iron and paste-mold branches. The objectionable rules were next considered and many of the obnoxious features contained in those first proposed by the manufacturers were greatly modified or else entirely removed. Some of them however were still objectionable and prevented a settlement. These related to the employment of apprentices. Meeting after meeting was held to discuss the rules, but no conclusion was reached until April 28, when the manufacturers withdrew the objectionable rules. Both parties signed the scale and this brought the great lock-out to an end. It was agreed that the list finally agreed upon should be in force until the following December. The following rules were also mutually accepted, to remain in force until December 31, 1888 :

Rule 1. The right of the manufacturer to hire and discharge employés is acknowledged, and it is understood that when workmen are to be hired, that members of the A. F. G. W. U. are to have the preference. When no competent union labor can be procured, labor can be drawn from any source. It is further agreed, on the acceptance of these lists and rules, work shall be resumed without discrimination by either party against any manufacturer, or any workman, because of anything done by either during the present trouble.

Rule 2. Whenever it is necessary to reduce the force of employés or to make needed changes, a week's notice shall be given by the manufacturer, and under all circumstances a like notice shall be given by one or more workmen before quitting work. This does not apply to cases of drunkenness, incompetency, neglect of work, or the violation of any acceptable factory rule.

Rule 3. Fifty-eight (58) hours shall constitute a week's work in mold making and cutting departments, fifty-five hours in engraving and blowing departments, overwork to be allowed in the three first named departments when necessary.

Rule 4. Each manufacturer shall be entitled to employ in the press department, two apprentices for each ten pots in operation, either at gathering or at foot-setting, who shall work six months at ten per cent less than list wages.

Rule 5. A falling off in the number made in a move by reason of a change of molds, if changed by an order of the managers will entitle the shop to the average wages of a move.

Rule 6. The shop shall not be charged for any defective ware not caused by its own fault, provided that workmen failing to report imperfect metal or molds to one person designated to receive reports shall be responsible for imperfect goods made thereby.

Rule 7. Articles, the numbers of which have not been provided for, shall be arranged by the management and workmen.

Rule 8. Pressed ware shops shall be paid for all seconds caused by bad workmanship if the same are packed. If to be broken down the workmen shall have the right to examine.

Rule 9. In case of a disagreement in any factory in the association, it shall if possible, be settled in the factory in which it occurs. In case of failure to agree, the matter shall be referred to the manufacturers and worker's committee for settlement. Pending the discussion and decision of such difference there shall be no lock-out, strike or cessation of work by either employer or employed.

Rule 10. The summer stop shall commence on the last Saturday in June, and continue six consecutive weeks.

Notice of contemplated changes in the general wage scale, or in rules, must be given on or before December 15th of each year. In case of a disagreement in December as to the general wage scale, or rules for the succeeding year, there shall be no cessation of work by either party on account of said disagreement before the following May.

JOS. ANDERSON,

Secretary Manufacturers' Executive Committee.

WM. J. DILLON,

Secretary American Flint Glass Workers' Union.

JENKIN JONES,

Chairman Manufacturers' Executive Committee.

WM. J. SMITH,

President American Flint Glass Workers' Union.

PITTSBURGH, April 28, 1888.

During the period of their lock out over \$250,000 were paid out to the members in relief benefits. This sum conveys in a measure the great pecuniary sacrifices patiently made by the members in support of their fellow craftsmen. It also conveys some idea of the discipline which these men had imposed upon themselves. Although the number of unemployed men at one time was as high as 2,800 and at no period fell below 1,500 members, yet out of all those, scarcely twenty men were unfaithful to their obligation. Rarely, if ever, was such loyalty exhibited on the part of men, in whom the moral determination to abide by their union made them rise superior to the temptation of accepting employment at the manufacturers' terms.

On the following July, 1888, the eleventh annual convention was held in the city of Canton, Ohio. It was the largest convention ever held, the delegates numbering 144, and representing a membership

of about 6,000. In spite of the severe tests of the preceding months, eleven new local unions had been added to the rolls and the membership had increased.

The work of the delegates at this convention was comparatively easy, since the question of uniformity of moves and wages which had always occupied the greater part of previous conventions, no longer vexed the members. That question had been settled and was now a thing of the past. The summer stop law was, also, emphatically reaffirmed. A local union which had granted permission to two factories to work during the summer months was instructed to at once comply with the law, and did so. In this convention it can be remarked that in the rules drawn up by the manufacturers in the fall of 1887, was a recognition of a six weeks' summer stop, thus fully and unanimously accepting the position contended for by the men in previous years. The custom now has the universal and cordial sanction of both manufacturers and the men.

At this convention it was also decided that flatteners, smoothers and puntiers were not to be classified as belonging to the engraving branch, and hence were not eligible to membership in the union. The glass-packers who made a third attempt to be taken into the union were refused admission for the third time.

The convention also decided to establish a surplus fund so that in case of trouble the union would not enter a contest such as had just been closed, with but a small sum of money in the treasury. Heretofore all members had been equally assessed a fixed sum, irrespective of their earnings. This was changed to the percentage plan, and for the past year the members have been paying two per cent. of their wages into the union treasury, while the per capita tax for running office expenses has been fixed at twenty cents a quarter or eighty cents a year.

The cutters introduced a resolution providing for an apprentice for every seven journeymen in their branch, and it was agreed to by the convention.

During the fiscal year the officers of the American Flints had connected the organization with the American Federation of Labor, and Secretary W. J. Dillon and J. H. Burt had been sent as delegates to the annual convention of that body at Baltimore, Md. This action on the part of the officers was ratified by this convention.

The old officers were reelected for the following year and their salaries remained the same.

The period following the Canton convention up to the present time has been the most peaceful of any year since the organization. It is a significant fact that the only department in which a strike occurred during the past six months is that in which the conference plan of arranging scales has not yet been adopted—the cutting branch.

Among the few firms in the whole country that have not adopted the

uniform scale of the press department, agreed to by the joint conference of the workers and manufacturers, are the Riverside Glass Co., of Wellsburg, West Va., and the Rochester Tumbler Co., of Rochester, Pa. These two firms were not represented in the conference committee, and do not belong to the manufacturers' association, nor do their men receive union wages. A strike had been inaugurated at the latter place after the adjournment of the Canton convention, to secure the union scale, as they were being paid less and had to turn out more work than in union factories. The strike lasted for a few weeks, but finally the greater portion of the men became disloyal to the union.

Up to January, 1889, seven new locals have been formed, so that the membership now exceeds six thousand. In the latter part of 1888 the Green Bottle Blowers League applied for membership in the American Flints, but it was decided by a vote of the members not to incorporate that branch of the glass business.

The history we have given of the American Flint Glass Workers Association shows that its ideal has always been justice to all. It sprang into existence in defense of this principle; it suffered the most severe trials and untold hardships to maintain it. It has lived to see its position on many questions vindicated and the wisdom of its plan acknowledged. It has won for the workers the respect of the employer, and in spite of the hard-fought contests of former years, a better, kindlier feeling prevails. The manufacturer has become aware that the workmen are not simply machines, but that they have an intelligence in the conduct of their affairs, which is to be admired. He has seen the justice of meeting these men in mutual conference, and considering their arguments in support of their wage claims. In former times it would have been deemed presumptuous to suggest that employés had a right to a voice in fixing their wages. This was supposed to be an interference with the employer's business. Yet now it is seen that the old way provoked more trouble and engendered more strikes than the course desired by the union. The confusion under the old way in relation to wages and the daily output required of men in different factories, was a condition of anarchy. It was the aim of the union to create order out of this chaos, and to-day uniformity is an established fact. Without this earnest desire on the part of the men, employers would never have been able to secure an equal and just basis for labor. Their interests were divided by competition, while the interests of the workers were identical. Hence although a uniform system was finally established by the mutual efforts of both, it was mainly due to the steady efforts of the men in that direction.

The union has also been the means of opening a wider field to the members. Many of them study their printed scale, as the lawyer does his law books. They watch the condition of trade, the selling

price of goods. A labor bureau is created whose duty it is to report any vacancy in the trade so that unemployed members can be immediately directed to the proper place.

Aside from this the union assists its sick members, and every local union regards it as its duty to protect the widow and children of a deceased member. This feeling of common brotherhood has eased many a sick bed, and resigned the waning life to the inevitable fate, because comforting hands were known to be outstretched to assist the bereaved. The union sentiment has also promoted sobriety. The men who are able to control their passions are the influential members. Even those who unfortunately have not this self-control respect the character of the others.

As an educational, humanitarian, civilizing influence, unions are accomplishing a great work which the future historian will find more worthy of his immortal pen, than the wars and petty intrigues of kings. As yet they are only in their infancy, but the time may come when with their assistance, capital and labor will be truly harmonized. Profit-sharing is finding many strong supporters among employers and the era may come when the production and distribution of wealth will be a science, in which modern competition will play no part. If that day does come the higher civilization will be largely due to the disciplined and well-trained organization of labor unions coöperating with the willing capitalist for a better and grander social system.

THE WINDOW-GLASS BLOWERS' ASSOCIATION.

In the year 1857, the window-glass blowers of [Pittsburgh, met in old Market Hall, in the Diamond, on Twelfth street, south side, and organized themselves into the window-glass blowers' union. The organization grew rapidly and during its reign in Pittsburgh and the west, was one of the strongest trades' union in the country. The eastern and northern workmen were only partially organized, and the result was, the western workers received high wages and better treatment. At that time there were four separate and distinct organizations. For sixteen years the window-glass blowers' union controlled their trade very strictly. The experience of the members of the union was of considerable help in the formation of the laws governing the new organization.

The panic of 1873 was a very severe blow to the union, and one that it never fully recovered from. After the panic of 1873, the workmen lost all interest in the union. For several years the go-as-you-please spirit governed every window-glass worker, and each contested with his neighbor in turning out a large amount of work.

In the summer of 1877, the riot broke out in Pittsburgh. The riot did much to solidify and organize the workingmen. The conserva-

tive workingmen saw that without an organization, in time of trouble, it was impossible to control their fellow workmen, and there was a rush for an organization. The workingmen who did not condemn the Pennsylvania railroad at that time for the methods which they adopted to defeat the cause of labor, bringing soldiers from Philadelphia, undoubtedly drew the latter class of laborers close together, and the man who refused to announce his convictions on the labor question at that time, was looked upon as an enemy of the workingmen.

Assemblies of the Knights of Labor had been instituted in Pittsburgh, and were growing very rapidly. Nearly all the leading workmen in the order were in mixed assemblies. The window-glass workmen had just emerged from one of the most disastrous strikes they had ever entered into, from the fact of not having a thorough organization. Nature's passions contended with each other in the bosoms of the workmen. It seemed almost impossible to get two workmen who were of the same opinion as to the proper method to pursue, to gather into one fold the scattered forces of the organization. That was the true condition of the window-glass workers in the summer of 1877. There were a few earnest workmen in the trade, who realized the condition of the workers. They met frequently and talked over the condition of the workmen. All faith had been lost in the trades unions. They had been tried by them and found wanting. These few men met an organizer of the Knights of Labor, who explained the teachings and principles of the order. In the new doctrine they saw their way clear to form a new organization. Enough gatherers were called to a meeting to form an assembly, and in the fall of 1877, the window-glass gatherers organized themselves into L. A. No. 300, Knights of Labor. The assembly grew and prospered. The cutters were soon organized into L. A. 305, Knights of Labor, and worked along slowly for some time. The blowers were organized into L. A. 322, Knights of Labor, and for a long time it was a struggle for them to maintain their assembly. At that time, in Pittsburgh, A. D. S. Knights of Labor, composed entirely of glass workers in and around the city of Pittsburgh was in existence, and known as the "Glass District."

The flatteners still maintained their trade union. Each local assembly of the Knights of Labor, sent five delegates to the district meeting. They brought the blowers, gatherers and cutters closer together in trade matters, then they had ever been before, notwithstanding the fact that all of the trades worked in the same factory and each dependent on the other for work.

The three assemblies worked along for a year, nothing of importance transpiring. In the summer of 1878, the assemblies paid two organizers to go west and initiate the workmen of the different trades into their respective assemblies, and in that way secured members in every factory west of the Allegheny mountains. The three assemblies worked along in harmony, each recognizing the need of the

other, from that time. In fact, no action of importance was taken without a consultation of the officers in a joint meeting of the three assemblies.

The blowers, L. A. 322, instructed the delegates to the district meeting to have the latter pass upon a proposition, giving L. A. 322, the right to elect a president, who was to be paid a salary, as his duties were outside of those of the assembly officers. The request was granted by the district assembly and the representative sent to the general assembly of the Knights of Labor, held at St. Louis, January 14, 1879, was instructed to bring the matter before that body. He did so, and the proposition was then and there approved. In pursuance of this, L. A. 322, appointed a committee of three to draw up a plan agreeable to the law, whereupon the committee drafted the following, which was duly adopted and still remains as a law :

“In connection with assembly officers, there should be elected by popular vote of the members of the assembly, a president, who should devote his entire time to looking after the interest of the assembly, and receive a salary for his services.”

The president was given the power to appoint his own council or cabinet, as an advisory board, and on June 6, 1879, the first president of the Window Glass Workers Association was installed in office. The work of organizing the window-glass workers of the United States, into one association, then began. That summer, through the president and his council, the workers received an advance in wages of ten per cent. by signing a contract with the manufacturers for the year's work. Previous to that date, there was no contract, it was a go-as-you-please run. It was an exceptional year that passed without a strike or lock-out. And some years there would be two strikes. That was the beginning of the yearly contracts in the settlement of wages and rules for working, between the manufacturers and workers, and has worked very satisfactory ever since. Both parties are pleased with the new condition the change has brought about, and have no desire to return to the old system, each knowing when the scale is signed, that both will live up to this agreement. At that time there was no uniform shut-down of the works through July and August. It was a go-as-you-please with all manufacturers. Some firms would run their works through the summer months and shut down in the winter months. There was no summer vacation like that enjoyed now by the window-glass workers, and which has been adopted by the bottle blowers and flint-glass workers. The first move of the president and council was to bring about a universal stoppage during the months of July and August. A number of firms wanted to run their works during those two months. The blowers and gatherers assemblies appointed a joint committee to work in conjunction in closing down such works. Success crowned their efforts, and that victory secured to the window-glass workers of the United States their summer shut-

down. That struggle demonstrated to the two assemblies, the importance of working in harmony with one another, and, a joint committee was appointed to draw up a plan of consolidation of the two assemblies into one. The result of the conference was the consolidation of the assemblies into one assembly, L. A. 300, on August 18, 1879; and on September 1, 1879, work was resumed in all the western factories. The president of the association went east for the purpose of organizing the blowers and gatherers into L. A. 300, Knights of Labor. He did his work well, notwithstanding the fact that some of the most prominent Knights of Labor in the east, opposed the initiation of the window glass workers into a trade local, and even went so far as to carry the matter before the general executive board of the Knights of Labor, claiming that it would break up the order to bring these men into Trades L. A. (300), and the general executive board decided contrary to their wishes, and in favor of L. A. 300.

On January 21, 1880, the cutters came over in a body and joined L. A. 300. The flatteners were still holding to the trades union. The question of having all the glass-workers in one organization was discussed, and a conference committee of the flatteners and of L. A. 300 were appointed. The result of the conference was that the flatteners were initiated into L. A. 300 in a body, on the 14th of February, 1880.

This was the end of the independent organizations in the ranks of the window-glass workers of the United States, and the four skilled trades were joined into one of the strongest labor organizations ever organized. After the consolidation of the four trades into one organization, the laws had to be changed somewhat, to suit the new condition of the new organization. The executive counsel was increased to eight members; four elected by popular vote, one from each trade. Four were appointed by the president, one from each trade. The president and council were given power to veto any resolution or motion passed by the assembly, by a two-third vote of said council, and it required a majority vote of the assembly to pass a motion or resolution over their veto. So far, the president and council have been very conservative in the exercise of the veto power, and in every case have been sustained in the vetoes, by the membership. The veto power in the hands of the president and council is a safeguard to the organization, and has been a check on any hasty revolutionary action that might be adopted by the assembly. The plan and foundation upon which the window-glass workers organization is formed, is as near the plan of the government of the United States, as it is possible to have it.

The organization is composed of four trades; blowers, gatherers, flatteners and cutters.

Window glass is made out of sand, lime and soda, or often salt cake in place of soda. Charcoal, arsenic and manganese are often used

to give an extra tint or color to the glass. The mixture is put into clay pots which are placed in a furnace, that is heated to the highest degree of heat obtainable, and melted. When it is properly melted and tempered, the gatherers and blowers start to work. The gatherers will gather the glass on the end of a blow pipe about sixty inches long, and will gather from eighteen to twenty pounds of glass for single strength, and from twenty to forty-five pounds for double strength. After the gatherer has sufficient glass to make a cylinder, he carries it to the blower who forms the glass ball into a glass cylinder. After the cylinder becomes cold the blower splits it open. The cylinder is then sent into the flattening room where the flattener flattens the cylinder into a sheet of glass; when the glass is flattened and properly annealed, it is then transferred to the cutter who cuts the glass into proper sizes for shipment on the market.

In the spring of 1879 there was a law passed placing a limit on production which took effect September 1, 1879.

For the blast ending June 30, 1880, there were six hundred and forty pots in operation in the United States.

In the summer of 1880 the president and counsel secured an advance of ten per cent. for workers' with some little advantages obtained in the work, making over twenty per cent. advance in wages since the foundation of the organization. Things run along smoothly until 1882, the wages paid to the eastern workmen were considerably lower than was paid west of the Allegheny mountains. There was a delegates' convention held in 1882 which decided to make a difference of ten per cent. between workers' wages east of the Allegheny mountains and the wages paid west thereof. The Western and York State manufacturers signed the scale as presented to them, but the eastern manufacturers refused to sign the scale presented to them. The result was a strike was declared and weekly benefits, and very liberal benefits at that, were ordered to be paid to the workmen who were out on strike. The result was some of the workmen drew more weekly benefits in money from the organization than they have ever drawn weekly while working.

On September 28 there was a special meeting called of the assembly; when the meeting was called to order the secretary stated that when he went to draw the money to send east to the members on strikes, there was no money to the credit of the organization in the bank, and from reliable information received by him the treasurer had left with all the money, perhaps two thousand dollars. Several members offered sufficient money to bridge over the emergency, and the strike went on just the same, the workmen paying in the ten per cent. of their earnings freely and without stint.

The strike was ended in favor of the workmen about February 1, 1883, the organization having spent over fifty thousand dollars for the

relief of the workmen engaged in it. The treasurer was prosecuted and the money restored to the assembly.

Several firms took issue with the organization on the law limiting production, discharging whole sets of workmen and importing workmen from Europe to fill their places. The firms were fought by the organization.

The president of the organization was brought before the civil courts by several of the firms, but the fight continued. All the firms but one soon got tired of running non-union workers, and discharged their imported workmen and threw their works open to the organization; but it did not last long. After a while the firm failed. In Portage county, Ohio, in the fall of 1883, the scale of wages was signed by the eastern manufacturers, and work resumed in the east. The western manufacturers demanded a reduction of wages from fifteen to forty per cent., based on the fact that the tariff on window glass had been reduced in 1883. The workers refused to accept a reduction and a lock-out was declared. The eastern workmen paid ten and fifteen per cent of their wages to support the lock-out members, and over one hundred thousand dollars was expended in that way. The lock-out ended about February 1, 1884, the workmen receiving their full wages, and under the scale agreed upon secured an advance of ten per cent. for the last month's work, ending June 30, 1884.

The importation of workmen under contract was still going on, and the question of importing workmen under contract from Europe, at less than current wages, was brought up in the assembly and discussed in all its bearings on labor. A committee was appointed to have a bill drawn up to present to Congress to remedy the growing evil.

The committee employed a lawyer to draft a bill that would be constitutional in all its details which would prevent foreign labor from being imported into the United States under contract. The committee submitted the bill as prepared by their lawyer, and the assembly approved it.

The delegates to the Cincinnati session of the General Assembly of the Knights of Labor, in 1883, presented the bill to that body. The delegates approved of the bill and the G. E. B. was empowered and instructed to send petitions to every Local Assembly in the order, asking Congress to pass a law preventing the importation of foreign labor, under contract, into the United States. The result was that one of the largest petitions ever presented to Congress was presented in favor of this bill, and the provisions of this prohibiting the employment of foreign labor under contract, became a law. This brings us down to the summer of 1884. The result of the two strikes had increased the number of pots two hundred, in two years, making 840 pots in operation in 1884.

The law prohibiting foreign labor under contract did some good, but did not work as well as was expected. The window-glass workers

had sent several delegations to Europe to encourage the foreign workmen to organize themselves into a good union of some kind.

At the convention of Local Assembly 300 in July, 1884, a plan was submitted to the convention to send an organizer to organize the European window-glass workers. The plan was adopted and an organizer was sent who remained there over a year engaged in this work. The universal federation of the window-glass workers of the world was then established, the officers of which consisted of a president, a secretary and organizer and executive board. The secretary and organizer is stationed in Belgium, and Local Assembly 300 pays him over one thousand dollars a year for his service. The organization takes in Belgium, France, Italy, England and America.

The first federation convention was held in Pittsburgh in 1885, the second one in St. Helens, England, in 1886, the third one in Charleroi, Belgium, 1888; the next one will be held in Paris, in 1890.

The law in Germany preventing the workmen from organizing into trades union was the obstacle that prevented the German workmen from joining the universal federation. The extension of the organization to Europe has been an education to the workmen, and if kept up it will in time prove to be of benefit to the workers.

The bill introduced into the Forty-ninth Congress to reduce the tariff was brought before the assembly and discussed, and the assembly decided thereupon to send a committee of nine to Washington to protest against a reduction of the tariff on window glass. That committee secured a hearing before the Ways and Means Committee, of which Mr. Morrison was chairman. Subsequently they reported to the assembly their statement of the hearing before the Ways and Means Committee, and recommended that a committee be appointed to look after the Morrison election. That report resulted in a committee of three going through his district and working against him.

There had been very little change in the wages of the workers until the fall of 1885. The increase in the production had demoralized trade generally, and the workers accepted a reduction of ten per cent. That wage list remained in force until the fall of 1887. The workers secured an advance of five per cent., and that list of wages is still in force. The production has increased very rapidly, too much so for the good of the business.

The development of natural gas in Ohio and Indiana, the donations of land and money, and free gas are all responsible for a larger increase than otherwise would have been.

The number of pots in the course of erection and in operation in the fall of 1888, was over fourteen hundred.

The organization has absolute control of the granting of apprentices in the different trades; while the apprentice law is guarded with a jealous eye, there is no other trade or organization that treats its

apprentices as well as the window-glass workers. No one is allowed to make money from the teaching of an apprentice. Whenever an apprentice is capable of filling the place of a journeyman, he receives the full pay of a journeyman. Financially, the organization has grown very strong. In the year 1879, the initiation fee was made \$1.50. In 1889, the fee was \$100. This, through the wise and conservative manner in which the presidents and councils have managed the organization, and there never has been any serious defeat of the organization for this reason.

If the presidents and councils will continue in the future the wise and conservative management of the assembly that has characterized their work in the past; the organization must and will grow stronger and more useful and beneficial to its members.

The fact that window glass is being made in fifteen different States, and not one factory is being run by non-union workers, is sufficient evidence of the wise management and control of the organization, by its members and officers.



AMERICAN AND FOREIGN LABOR ORGANIZATIONS COMPARED.

The following paper is founded on a study of labor organizations, by the Chief of the Bureau, during a European visit last year. The history of foreign labor organizations, similar to those existing here, is worthy of careful study, for, as they are much older, we may be able to form some important practical conclusions from studying their history concerning the probable tendency or future of our own.

The early years of every labor organization, like those of most institutions, have been imperfect in many ways; and the important question is not, how did it start, nor what were its faults in the beginning, but what progress has since been made? Have the succeeding years been fruitful in increasing the intelligence of its members, in their getting a better insight into their relations with their employers, and also into the conditions on which their own and their employer's success depends? If our inquiry shall show that whatever may have been the origin of labor organizations their later history has been marked with a more intelligent administration of their affairs than their earlier, and that they are more and more justifying their necessity in the present industrial organization of the world, all persons must surely gain a stronger hope for the future.

Three kinds of labor organizations now exist which must be clearly separated to avoid confusion in describing their history. These are trade unions, industrial partnerships and coöperative societies.

A trade union is a secret society of the workingmen who are engaged in a particular trade, and has for its object not only an increase in their rate of wages, but also the general improvement of their members. It has often been supposed that the sole object of a trade union was to increase the rate of wages; but this is a mistake. One reason for supposing this is, that such societies in this country have often been formed when a strike was about to begin, and, in such cases it may be fairly said that the principal object in combining was to strike more effectively than they could if unorganized. It will not be denied that to secure an increase, or to maintain a higher rate of wages has always formed a leading object in these societies; but in many cases, at least, the beneficent features have also been prominent. We shall give some statistics, by and by, clearly showing how largely the beneficent feature has entered into these organizations.

The object of an industrial partnership is very different. It is to put the employer and the employed on some basis acceptable to both with respect to the division of the profits of the business in which they are engaged. In general terms it may be said that the employer has usually given the current rate of wages, and has also agreed to divide a certain portion of the profits after deducting for expenses of management and a stipulated return on the capital used. To this plan there are many exceptions and modifications. For example, in some industrial partnerships consisting of joint-stock companies, the workingmen have owned some of the shares, and in this way have been permitted to share in the profits of the joint enterprise. Of this form of society more will be said hereafter.

The third kind of labor organization is called a coöperative institution, which differs from the two in several important particulars. In the first place there are no capitalists in the concern. The workingmen furnish their own capital and own skill, both for the technical processes in producing and for management. It is, therefore, seen to be precisely opposite to the ordinary factory or other productive establishment with which most persons are familiar. Within a few years various plans of dividing the profits have been inaugurated by American merchants and producers, and there has been a constant misuse of the term coöperative. In this case, the institution thus offering to divide a portion of its profits should be regarded in the light of an industrial partnership, and not as a coöperative concern, for the obvious reason that the employer furnishes all the capital, while in a coöperative concern, as we have just seen, the workingmen furnish all the capital as well as all the labor. It is true, there are coöperative institutions in our country, but only a few compared with those existing in Great Britain and France; and we repeat that the most of the plans for sharing the profits with the employed, started within the last four or five years, are of the industrial partnership type, and will be so considered in our subsequent remarks.

Furthermore, coöperative societies are divided into two kinds, those which are engaged in distribution and those engaged in production. Distributive societies are the oldest and have been agoing for forty years in Great Britain with great success. The productive societies are younger, and their success has been less uniform. Distributive societies may again be divided into wholesale and retail. The wholesale societies are of recent date, but have assumed gigantic proportions in Great Britain. These are the several kinds of labor organizations existing both abroad and in this country, except the knights of labor whose aims and purposes were fully described in our Report of last year.

Concerning the need of forming trade union societies, a word may be said in passing. It will not be denied that in Great Britain, where they originated, they were needed. The capital of employers had be-

come enormous and possessed great power, and the only way of coping with it fairly was to form organizations of this character. The low wages paid for many years, the long hours required, and the terms of employment generally, justified the formation of labor organizations whereby the employed could do something to relieve their condition. Before these labor organizations existed the workingmen were quite at the mercy of their employers. They were the natural or appropriate offset to capital. Consequently they were easily formed, for employers, by erecting great factories and thus drawing together the employed, created the necessity as well as the convenience of setting such societies in motion. What was more natural than for men when they were thus working under a common roof, to talk over their condition, to sympathize with one another, and to unite for the purpose of bettering themselves if possible? Had there been no factories, the world would never have heard of trade unions, knights of labor, or other labor organizations. They are the natural accompaniment of the great factories and the enormous aggregations of capital, and of the times.

It has been said, however, that whatever justification may have existed for such organizations in Great Britain, no reason exists for them in this country. We dissent from this view. On the other hand while the reason may not have been as strong, we regard such organizations as the proper offset to the large capitals under the control of one man or company. To say, however, that labor organizations of some kind are needed is not to justify all they have done; and we have not the slightest doubt that such organizations of some kind will exist as long as the factory system shall endure. It may be that the solution of this question lies in the industrial partnership system. We shall furnish some evidence before closing this paper to show that the industrial partnership is doing something to solve the antagonism between the two classes. We cannot hope for so much from coöperation, for the simple reason that one of the two needful ingredients in successful production is eliminated, namely, a large amount of capital or the ability to command it at a low rate of interest. The employer ought, therefore, to recognize the labor organization as a fitting thing, as having a needful place in society, like his factory, and while he cannot perhaps do anything directly to improve it, as he is not a member or participator in its movements, yet he should not hesitate to acknowledge the propriety of its existence, for if he did, he could then make suggestions for its improvement, which very likely would be heeded, but which he cannot make with much hope that they will be heeded so long as he remains its opponent..

The coöperative idea, as defined above, has not taken very deep root in this country. From time to time stores have been started for distributing merchandise; but their history too often has been brief. In more than one case the treasurer or manager has run away with

the funds, or used the association for political purposes. Notwithstanding their brief life here, in Great Britain they have flourished during the last forty years, and while some mistakes of management have occurred there, defalcations or frauds among them have been exceedingly rare. It would be an interesting inquiry to show why the workingman in the two countries should have pursued such different methods in conducting similar enterprises. Why has the British workingman been truer to his organization than the American member to his? An explanation, in part, of the lack of vigilance and greater indifference among American workingmen is perhaps the less urgent need of such organization here, anyhow the fact is that many of the co-operative concerns in this country have failed through mismanagement, while in Great Britain they have thus suffered only on a few occasions.

The mode of organizing a retail coöperative store in Great Britain may be briefly explained. Any one may join by depositing one shilling, or twenty-five cents. The ordinary prices are charged for the things purchased, and cash must be paid. The profits are allotted to their members in proportion to their purchases quarterly or semi-annually. These profits must remain with the society till a share of £1 or \$5 is paid. On this share the society gives four or, more frequently, five per cent. The members of these societies now exceed 900,000, and receive more than \$12,500,000 of profit annually. There are 1,200 stores in operation, which transact a business of \$150,000,000 a year, and have a share capital of \$40,000,000. The transactions of their coöperative bank at Manchester amounts annually to \$80,000,000. The societies devote \$110,000 a year to educational purposes.

Coöperation in its several forms has flourished best in England, France, Germany and Italy. The French have succeeded best in co-operative workshops. The Germans and Italians in coöperative banks, and the English in their stores.

Of late the coöperative idea has sprung into new life in this State. The last Legislature enacted an elaborate measure for the formation of coöperative enterprises. Under that law the following companies have applied for organization and are now existing in this State.*

* Previous to February 15, 1889.

Co-operative Societies in Pennsylvania.

NAME OF COMPANY.	Date of in- corporation.	Place of business.	Amount of capital stock.
Eureka Co-operative Associa'n.	Sep. 20, 1887	Coaldale, Bedford co., Pa.	\$5,000
Farmers' Co-operative Asso'n.	Sep. 28, 1887	Meadville, Pa.	60,000
Erie county Co-operative Asso- ciation,	Oct. 21, 1887	Erie, Pa.	2,000
Mansfield valley Co-operative Association,	Oct. 27, 1887	Mansfield borough, Allegheny co., Pa.	10,000
McKeesport Workingmens' Co- operative Association,	Nov. 22, 1887	McKeesport, Allegheny co., Pa. }	Limited to 10,000
Pioneer Assembly, 6428 K. of L.	Dec. 6, 1887	Renovo borough, Clinton co., Pa.	
Co-operative Association,	Dec. 12, 1887	West Brownsville, Washington co., Pa.	1,000
Farmers's and Mechanics' Co- operative Association,	Jan. 11, 1888	Suterville, Westmoreland co., Pa.	2,500
Peoples' Co-operative Associa- tion,	Mar. 15, 1888	No. 916 Girard avenue, Philadelphia, Pa.	10,000
Equitable Co-operative Associa- tion,	Mar. 25, 1888	Latrobe, Westmoreland co., Pa.,	10,000
Latrobe Mercantile Co-opera- tive Association,	May 4, 1888	Sitka, Fayette co., Pa.	1,000
Sitka Union Co-operative Asso- ciation,	Nov. 12, 1888	Shenandoah, Schuylkill co., Pa.	2,000
St. George's Lithuanian Co-oper- ative Association,	Jan. 9, 1889	Maysville borough, Lackawanna co., Pa.	1,500
Jermyn and Glenwood Co-oper- ative Association,			

Their experience has been too short to be reviewed at the present time, but all will watch with interest these new experiments. It may be remarked, too, that this idea is growing elsewhere; a movement has been recently started in Iowa among the farmers to form distributive societies on a great scale and thus have their wants supplied at a considerable saving. It is quite probable that, in this country where we all are so alert for new ideas and experiments, if the coöperative idea should once get a secure footing, especially in the distribution of merchandise, it would rapidly spread everywhere. Nothing is easier than to conduct an enterprise for distributing merchandise; and probably one reason why consumers have been so slow to unite for this purpose is that their wages and profits have enabled them to supply most of their wants, and so they have not felt the need of resorting to other methods to satisfy them. In Great Britain, on the other hand, where wages have been lower, the necessity was imperious for resorting to every possible economy to satisfy the wants of the wage-worker. It was the existence of this state of things which first led to the formation of these societies there and also to their continuance during these forty years and more.

We will now consider the trade unions. The names of the principal ones in Great Britain are given in the following table, with some statistics of their income and the objects for which it was spent.

TABLE showing the Amounts Expended on their various Benefits by Twenty-six of the principal Trades Unions over a stated number of years in each case, also the number of their Members in December, 1887.

NAMES OF SOCIETIES.	Number of members in December, 1887.	Number of years for which paid.	VARIOUS BENEFITS.								TOTAL.	
			Unemployed bene- fit.	Tool benefit.	Sick benefit.	Funeral benefit.	Accident benefit.	Superannuation benefit.	Trade protection.	Traveling benefit.		Benevolent grants.
Amalgamated Society of Engineers,	51,869	37	£1,407,791	.....	£617,162	£191,247	£17,400	£403,757	£84,669	.....	£66,489	£2,818,515
Amalgamated Society of Carpenters and Joiners,	25,497	28	300,585	£21,047	206,948	37,617	22,570	17,484	79,596	.....	16,289	702,136
Steam Engine Makers' Society,	5,000	35	81,889	.....	55,001	16,048	7,815	19,370	.....	.....	5,215	185,338
Friendly Society of Iron Founders.....	11,718	57	691,619 (57 years.)	.....	195,528 (57 years.)	57,239 (56 yrs.)	31,894 (43 yrs.)	95,304 (52 yrs.)	.....	.....	.....	1,071,584
United Society of Boiler Makers and Iron Shipbuilders,...	25,100	21	297,870	.....	253,403	44,629	20,415	39,321	61,272	£2,630	.....	719,540
United Kingdom Society of Coachmakers,...	4,688	21	105,411	.....	4,641	29,076	4,644	42,910	.....	.....	.....	186,682
Operative Bricklayers' Society.....	6,693	19	.....	.....	45,120	11,520	764	533 (6 yrs.)	4,928	.....	861	63,726
Associated Iron Moulders of Scotland,	5,455	17	146,790	.....	.....	25,960	.....	26,032	.....	.....	.....	198,842
London Society of Compositors,.....	7,025	40	82,730	475	.....	15,101	.....	8,769	22,055	7,868	17,612	154,610
London Consolidated Society of Journey- men Bookbinders,	923	32	20,910	.....	10,033	.....	.....	1,565	1,560	.....	783	34,851
Associated Blacksmiths' Society,	1,628	30	31,633	.....	24,213	4,798	2,347	1,563 (12 yrs.)	.....	.....	.....	64,554
Amalgamated Association of Operative Cotton Spinners,	15,416	9	118,084	.....	.....	5,081	9,685	4,379	99,793	1,791	4,985	243,798
Amalgamated Society of Railway Servants, ..	10,830	16	10,911	.....	1,413	.....	18,329	.....	8,992	.....	6,970	46,615
Operative Stone Masons' Friendly Society,...	10,238	48	90,996	.....	112,998	88,540	31,136	75,581	91,217	.....	11,573	502,041
Amalgamated Society of House Decorators and Painters,	1,037	15	.....	.....	5,120	1,050	.....	.....	213	.....	231	6,614
Associated Carpenters and Joiners,	3,877	26	49,508	7,704	.....	10,231	6,750	2,571	14,029	.....	.....	90,793
Glass Bottle Makers of Yorkshire Trade Pro- tection Society,	1,484	21	27,925	.....	.....	6,749	.....	2,978	21,074	.....	4,516	63,272
Northumberland Miners Mutual Confident Association,	12,748	17	40,124	.....	.....	2,293	.....	.....	74,952	1,293	23,935	142,597
Kent and Sussex Laborers' Union,	9,040	16	13,691	.....	94,784	13,974	.....	.....	.....	2,772	7,314	132,535
United Operative Bricklayers' Trade So- ciety,	1,275	21	9,206	.....	.....	23,898	33,416	.....	12,319	.....	.....	78,841

TABLE showing the Amounts Expended—Continued.

NAMES OF SOCIETIES.	Number of members in December, 1887.	Number of years for which paid.	VARIOUS BENEFITS.								TOTAL.	
			Unemployed bene- fit.	Tool benefit.	Sick benefit.	Funeral benefit.	Accident benefit.	Superannuation benefit.	Trade protection.	Traveling benefit.		Benevolent grants.
National Association of Operative Plasterers,	1,532	12	.....	.....	18,867	5,966	4,493	3,565	.....	.....	.....	32,891
United Plumbers' Association of Great Britain and Ireland,	3,003	20	2,258	.....	12,900	3,367	*	3,750	6,642	.....	.....	28,917
Amalgamated Society of Lithographic Printers,	1,854	9	5,477	.....	2,323	891	.....	.....	.....	790	.....	9,481
Scottish National Operative Tailors' Trade Protection Society,	2,853	6	.....	.....	8,595	2,079	.....	1,790	216	.....	.....	12,680
Amalgamated Society of Tailors,	14,305	19	23,157	.....	113,246	38,567	.....	1,867	20,004	.....	2,085	198,926
Durham Miners' Association,	30,000	14	50,342	55,582	174,736	27,862	72,982	.....	104,952	.....	.....	486,356
Total,	265,218	.....	£3,559,401	£84,808	£2,006,539	£663,783	£314,540	£753,149	£708,483	£17,144	£168,888	£8,276,735

* Included in sick benefit.

TABLE showing the Amounts Expended on their various Benefits by Twenty-six of the principal Trade Unions during the year 1887.

NAMES OF SOCIETIES.	Unemployed benefit.	Sick benefit.	Funeral benefit.	Accident benefit.	Superannuation benefit.	Tool benefit.	Trade protection.	Benevolent grants.
Amalgamated Society of Engineers,	£80,458	£31,138	£9,021	£1,850	£36,163	£129	£4,858	£2,989
Amalgamated Carpenters and Joiners,	32,814	17,228	2,951	1,370	3,797	1,510	4,487	786
Steam Engine Makers' Society,	5,989	2,729	745	100	1,714		1,051	49
Friendly Society of Iron Founders,	21,801	6,192	2,307	613	7,692		100	13
Boiler Makers and Iron Shipbuilders,	22,165	20,539	3,452	1,815	4,657		1,131	
United Kingdom Society of Coachmakers,	4,006	4,53	1,070	76	3,623			
Operative Bricklayers' Society,		4,766	977	116	127		102	10
Associated Iron Moulders of Scotland,	8,908		1,843		3,073	25		
London Society of Compositors,	4,819		992		1,165		743	211
London Consolidated Society of Bookbinders,	790	502			50			21
Associated Blacksmiths' Society,	1,991	1,071	198		185			
Amalgamated Association of Cotton Spinners,	15,775		702	1,499	1,011		2,226	254
Amalgamated Society of Railway Servants,	2,068	278			1,003		8,222	1,677
Operative Stone-Masons' Society,	1,402	3,442	1,264	125	4,191		150	
Amalgamated House Decorators and Painters,		693	137		521	200	21	25
Associated Carpenters and Joiners,		2,530	369	100	308		120	
Yorkshire Glass Bottle Makers,	1,511		160				933	52
Northumberland Miners' Association,	2,559		195				39,666	251
Kent and Sussex Laborers' Union,		8,457	1,383					2,000
United Bricklayers' Society,	25		601	530				
National Association of Plasterers,	125	1,008	311	174	182			
United Plumbers' Association,	365	1,325	331	400			239	
Amalgamated Society Lithographic Printers,	1,028	462	164					
Scottish Tailor's Society,		1,323	515		547			871
Amalgamated Society of Tailors,	1,280	9,688	2,836		511		804	35
Durham Miners' Association,		16,060						
	£209,879	£129,884	£33,524	£8,768	£70,520	£1,864	£64,853	£9,244

Grand total on these benefits—£528,536.

From these it will be seen that a very large portion of their funds has been expended for beneficent objects. The statement cannot be questioned that the trade unions of Great Britain, of late years, whatever may be said of the early history, have been conducted for the most part with great wisdom, and their funds have been conserved or spent principally for maintaining their members when out of work, sick or otherwise disabled. In short, only a small portion has gone for strike purposes. It is true that in the early history of these organizations strikes were frequent and very costly to both employed and employer; but it is equally true that they have grown wise with experience, and it will not be gainsaid or denied that these societies for the most part have a conserving influence and are managed with much discretion and judgment. We have been informed by persons who are to be believed, whenever a change of wages is deemed needful by employers, the managers of the trade union societies, who are generally the secretaries, are consulted and through them an arrangement is effected which is satisfactory to both, or, if failing to agree, the assistance of other parties is asked and usually given, through whom an arrangement is made and carried into execution. These secretaries have the confidence of their respective unions on the one hand and to a great degree the respect of the employers on the other. One can readily see what a great power is wielded by the secretaries of these organizations. Every year they issue reports giving an account of the operations of their respective organizations during the year, with complete returns of the income received, and of the objects of expenditure. Besides these annual reports some of them issue monthly publications giving an account of their financial condition, of the assistance rendered, of the number employed and unemployed, and a very intelligent survey of the condition of the industries in which they are engaged. We have often asked the members of the trade unions in this country concerning the utility of such publications, but too often have been told that their members are indifferent in informing themselves on these vital matters. It certainly is important for them to know for what use their money is expended, but hardly less important to know whether their employers are making money or losing, for on these conditions depend their wages, and whether they should ask for an advance or should submit without murmuring to a reduction when asked. One of the best lines of progress which workingmen can follow is this of informing themselves concerning the condition of their respective trades, and we believe that if this were done, many of the troubles now arising between employed and employer would be avoided. The condition of the business world is not a secret as it was formerly. Through the newspaper and other modes of communication persons, if so inclined, can learn much concerning the profits in the principal trades and manufactures in which men are engaged. Of course there are exceptions, but this remark in general is true.

Abroad, as above mentioned, the working classes perceive clearly the need of understanding the conditions of trade thoroughly, the markets of the world, and so their action for the most part is based on a very fair knowledge of all the surroundings. Too much consideration cannot be given to this suggestion. We believe that the diminution of strikes in Great Britain, in particular, is due to the intelligent study of the business conditions of the world and to the better selection of or improvement in officers. The question may now be asked, may we not reasonably hope that the labor associations here will have a similar history with this difference, that they will learn more quickly than foreign ones.

We have tried to give some statistics of the amount collected here by trade unions for beneficent and other purposes, but have been unable to get them. We know from inquiry that a large amount is annually collected, and of late years, though much has gone for striking purposes, much also has been expended in other ways for sick benefits and other disability. For example, we have learned of one case in which a member of a trade union who had lost an eye while at work was assisted to the extent of nearly three thousand dollars, the members of his union purchasing a store with the money contributed and giving it to him. The general practice is, when a member is in need of assistance the fact is made known and contributions are given by the members. Yet many of the trade unions do provide regular benefits for their members, and a good idea of their methods can be gained from the by-laws of one of these associations contained in the note below.*

*** Beneficial By-Laws of Sigel Lodge, No. 1, A. A. of I. & S. W., Revised and Adopted, November 3, 1883.**

ARTICLE I.

Any member who through sickness or other disability is unable to do his usual work, or follow some other occupation, and who has been a beneficial member for three months, shall be entitled to receive such weekly benefits as the by-laws prescribe, provided such sickness or disability is not of a permanent character or such as does not prevent other men similarly afflicted from pursuing their usual vocation.

ARTICLE II.

Membership.

Applicants for membership in the beneficiary department shall be proposed by a member who is in good standing in the lodge, which proposition shall be made in writing, and entered on the records. The president shall then appoint a committee of three, whose duty shall be to enquire as to the health, character and general fitness of the applicant for membership and report their opinion in writing at the next stated meeting of the lodge.

ARTICLE III.

The initiation fee shall be two dollars. One-half the amount to accompany the proposition; the balance to be paid at the time of initiation.

ARTICLE IV.

SECTION 1. Joint propositions for membership to Sigel Lodge, No. 1, A. A. of I.

The question may be asked, how are these societies sustained? In Great Britain and in this country, a weekly or monthly sum or tax is laid on each member, which he is obliged to pay or else he forfeits his membership. Refusals often happen; and organizations go to pieces; but it is remarkable that with no strong power to collect such a tax how very generally it is paid. In Great Britain, particularly, of late years, there seems to have been very little difficulty in collecting it. In this country a branch of a trade union occasionally refuses to pay and then the penalty is to cut it off; but in a time of special interest, as when a strike is impending, the sums due are generally collected

& S. W., and beneficial part thereof, shall be referred to one committee, and the applicants all balloted for at one time, unless objected to by the lodge.

SECTION 2. If objected to by the lodge, then the president shall appoint a committee for each applicant, and the candidates shall be balloted for separately.

SECTION 3. For rules of balloting and black balling, refer to Article XXIII. Sub Lodge Constitution.

ARTICLE V.

Any suspended member wishing to be reinstated shall pay all his arrears, or the full amount of initiation fee.

ARTICLE VI.

Any member withdrawing hereafter from Sigel Lodge, No. 1, A. A. of I. & S. W., or who is required by the laws of the association to withdraw from the same shall forfeit all claims to benefits.

ARTICLE VII.

Upon all questions concerning the beneficial part of this lodge, none but beneficial members shall be allowed to vote.

ARTICLE VIII.

Any member whose sickness or disability has originated from intemperance, vicious or immoral conduct, or whose disease or disability was contracted previous to his initiation into this lodge shall not be entitled to any benefits.

ARTICLE IX.

Any member while receiving benefits (being seen and reported to the lodge) drinking any intoxicating drinks, unless prescribed by his physician, shall not receive any benefits thereafter for such term of sickness.

ARTICLE X.

No member shall receive sick benefits for any one term of sickness for a longer period than one year. For the first twenty-six weeks they shall receive five dollars for each weeks sickness, thereafter they shall receive three dollars per week for the balance of the term.

ARTICLE XI.

SECTION 1. No member shall be entitled to benefits for the first weeks sickness.

SECTION 2. Members shall not be entitled to sick benefits for a fractional part of any week.

ARTICLE XII.

Members taken sick while absent from the city, must send to the lodge, a true statement of his condition, attested by a regular physician and a justice of the peace, the justice fees to be paid by the lodge.

ARTICLE XIII.

No member living within the city limits shall claim benefits previous to being reported to the lodge or relief committee of the lodge.

with, perhaps, additional penalties; and thus the branch is once more united to the tree. . So trade unions, we believe, all over the country, are retaining their power, collecting their money with growing regularity, and expending it in the manner above described. These dues, of course, are paid directly by the members under a series of regulations prescribing the amount, and giving time in a case of sickness or other accident, for making future payment, and thus avoiding an excessive hardship on the part of suffering members. The workmen here have had larger sums which they could expend for this purpose, and therefore it has been much easier for them to maintain their societies, so far as sacrifice was concerned, than in Great Britain and elsewhere. On the other hand, they have been less thoughtful in ex-

ARTICLE XIV.

SECTION 1. Members shall not be entitled to benefits who is three months in arrears.

SECTION 2. No member while sick, shall by the payment of his arrears be entitled to benefits during such term of sickness.

SECTION 3. Any member who may have been suspended for non-payment of dues, shall not be entitled to any benefits until three months after being re-instated.

ARTICLE XV.

When the treasury becomes so exhausted that we are unable to pay sick benefits, an assessment of not less than ten, nor more than twenty-five cents, shall be levied on each beneficial member.

ARTICLE XVI.

On each death of a brother entitled to benefits, the treasurer shall pay to the widow, or nearest relative, the sum of one hundred dollars and on the death of a brother's wife he shall pay to the brother, the sum of fifty dollars.

ARTICLE XVII.

On the death of a brother, an assessment of one dollar shall be levied on each member, and on the death of a brother's wife, each member shall be assessed the sum of fifty cents to refund to the treasurer the amount above appropriated.

ARTICLE XVIII.

Any member having been duly notified of a special or death assessment, and failing to pay the same within sixty days, shall be considered in arrears and not entitled to any benefits.

ARTICLE XIX.

On the death of a brother, the president shall call a meeting of the lodge, to make the necessary arrangements for attending the funeral. The recording secretary shall notify the members of the time and place of the funeral, and any member failing to attend shall be fined the sum of one dollar, unless excused by the lodge.

ARTICLE XX.

The relief committee shall consist of the president and officers of the lodge. It shall be their duty to visit within twenty-four hours such members as may be reported sick to the lodge, and living within the city.

ARTICLE XXI.

These by-laws may be altered or amended by a vote of two-thirds of the members present at any stated meeting of the lodge, provided that the proposed alteration or amendment be submitted in writing, and signed by not less than two members in good standing and presented to the lodge, at a previous stated meeting.

pending their money ; and so their history, on the whole, is not so satisfactory as their history in Great Britain.

With respect to the knights of labor, a word may be said. This seems to be an American institution and has never been started, we believe, in England or any other European country. Its existence has been somewhat antagonistic to the trade unions. As we all know, the knights of labor aim at consolidating all workingmen under one confederation ; whereas, trade unions are kept within an industry, like iron or glass. If the knights could have effected a perfect organization, there would have been a larger treasury, and therefore the power to strike effectively at any one point would have been enormously increased, and we suppose that this was one of the prime objects on the part of those who originated it to enhance the striking power ; but from the beginning its success meant the weakening and ultimate death of the trade unions. If the money of the members went into one exchequer, they could not pay it into the other. So far as we can learn, a determined effort has all along been conducted on the part of the knights to absorb the trade unions, seeing clearly enough that they would be immensely strengthened by thus burying the rival association. What the end will be we do not pretend to predict ; but the fact that the one weakens the other must be clearly apparent to any one who studies even slightly the nature and workings of the two organizations.

We may, therefore, conclude this portion of what we have to say concerning trade unions with the remark that the history of them in Great Britain is likely to be repeated here. We have the best evidence that the strikes that have taken place have had a salutary effect on both employed and employer. They have learned from these experiences how costly strikes are. They have come to realize how trade is disorganized by them, and in presence of strong competition how easy it is to turn trade away and how very slow is the recovery of it. So these organizations are passing under better management. Many of the rules that seemed so severe and harsh with respect to membership and other matters have been softened. Thus we believe that these institutions, which have hung like forbidding clouds over the factories of our land, will, in the end, prove to be great helps in solving the labor question.

Turning now to industrial partnerships, which were mentioned in the beginning, within the last three years a great many schemes of this nature have been started. In last year's Report we gave some account of them. We do not propose at the present time to add any statistics on the subject ; but their numbers are increasing. Of course, no scheme is adapted to every kind of business ; but the merchant or producer can, without much difficulty, adopt a scheme which will fit his business. This is particularly true of all joint-stock corporations. It would seem as though these institutions had been formed for this

very movement; for by transferring a portion of the stock to the employed, whether the concern be a railroad, an iron factory or otherwise, he becomes immediately interested as a part owner in the enterprise. If workmen have not money to pay for their stock, it may be sold to them at a certain rate and held in trust until payment is made, and thus both parties are secure. This is a feasible thing to do in all such cases. In other concerns, the industrial partnership takes another form, of dividing the profits after a deduction from the same for the reward of capital and skill of management,—the sum varying in different enterprises. Usually the ordinary rate of wages is paid as in other concerns. Among the flour mills of Minneapolis, for example, a bonus is distributed at the end of every five years among the men. Among many of the banking concerns of our country it is customary to give a bonus yearly, based on the profits of the business. As said before, it is easy enough to work out a plan. The difficulty consists in the disinclination of the employer to adopt one. It is certain that this mode of sharing profits is doing much to allay the antagonism between the two classes. The success already attained justifies a more general adoption of the plan in all kinds of business. Another feature of these labor organizations which ought not to be overlooked is, that by thus uniting they command more attention from the Legislature and the press and the public generally than they would if working without them. From these organizations have sprung labor investigations, some of which have been elaborate. Nor can these always be ascribed purely to demagogery, as some affirm. This, surely, is not the case with respect to the investigations which have been conducted in England, France, Belgium and other European countries. The first elaborate investigation of this kind was undertaken in Great Britain in 1867 by a commission appointed by Parliament, and their inquiry filled three folio volumes. This related wholly to the investigation of the aims and methods of trade unions associations. It was supposed on the part of those who instituted the investigation that it would show clearly that their aims and methods were detrimental to society and would turn the public against them. The result, however, was the reverse. While the evils wrought by trade unions were clearly shown, so also were the good results. Trade unions gained a stronger hold on the public than they ever held before.

One of the last of these investigations has been conducted by the Belgian government, the report in two large folio volumes appeared a few months ago. This committee investigated the situation with great thoroughness, and made a series of recommendations which may be found at the end of this paper.

Appendix.

BOARD OF ARBITRATION.

1. That there should be organized by royal decree for one or more industrial establishments a committee of arbitration, whose duty it should be to adjust all differences between employer and employé.

2. That all requests for arbitration should be made by the interested parties to the burgomaster of the commune. Within eight days after its receipt the communal council should decide upon the request and transmit its decision to the Government.

3. That the communal council, when it deems that the exigencies of the occasion demand it, may itself take the initiative step. In cases of trouble or strike the burgomaster may address himself directly to the Government invoking the assistance of the board of arbitration, under reservation 94 of the communal laws. In such a case the Government itself may take the initiative step.

4. That the board of arbitration should be composed of delegates selected in equal numbers from the ranks of both employers and employés; that in case the delegates cannot agree in the selection of a president, the board should be presided over by a justice of the peace, his deputy, or, in case of necessity, by some one delegated by him.

5. That the regulations of the board should determine the number of delegates, according to circumstances and the importance of the factories interested. It should also determine the classification of the delegates.

6. That the employers' delegates should be appointed by the proprietors of the establishment interested, and selected from actual customers, or from the directors, engineers, or accountants of said establishment. The delegates of the employés should be appointed from Belgian workingmen, not less than twenty-five years of age, and they must have actually worked at their trade four years at least in one of the interested factories. To be an employés' delegate requires the same conditions as to be an elector.

7. That the board, when organized, should make by-laws; it may be convened by the burgomaster or the governor, and at the request of one-half the members, and may meet at any time. The sittings should be held with closed doors.

8. That the deliberations of the board should be signed by the president and by each member, and stamped with the seal of the justice of the peace.

9. That the board may, at the request of all parties interested, take upon itself the responsibility of appointing an arbitrator.

10. That the delegates should be appointed for a term of two years.

REGULATIONS REGARDING LABOR.

1. That in everything that relates to the limitation of working hours for adults, this section deprecates any interference upon the part of the legislator, with this exception, that when hygienic reasons exist the law must and shall protect the health of the workingman.

2. That the commission is pronouncedly in favor of the complete and absolute interdiction of women and young girls being allowed to work in the mines. As a temporary measure the commission thinks that no girl under the age of fourteen years should be admitted to them.

3. That no child under twelve years of age should be permitted to work in any mine, factory, or yard other than in agricultural industry, and it is left to the discretion of the legislator to decide in what cases this regulation is applicable. Children, however, between ten and twelve years may be employed a half day, except in the mines.

4. That a day's work for a child between twelve and fifteen years of age must not exceed thirteen hours, out of which two hours, at least, must be allowed for rest.

5. That working at night by women in mines, factories, or yards is forbidden.

6. That burgomasters may give, on their own responsibility, a memorandum-book to the father, mother, or guardian of any child working in any mine or industrial establishment of any kind, on which shall be noted the name and Christian name of the child, together with the date and place of birth. That the foreman (*chefs d'industrie*) or the proprietors should, on their part, keep a register, upon which should

be entered the same facts, together with the date of the child's connection with the establishment, as well as the time when such connection should be severed. It would also be well to have posted in some conspicuous place in each factory the requirements of the law, and the royal edict touching that particular industry, as well as the by-laws of the establishment itself, should any exist.

7. That the standing of the sanitary police of the factories, especially of those who have in charge dangerous or unhealthy establishments, should be improved, and that it is particularly necessary that the local hygienic commission, which is now out of existence, should be reorganized. The inspectors in the discharge of their duties should be accompanied by a workman in order to avoid the divulging of any of the secrets of the factory.

8. That the inspectors should be selected, as far as possible, from officials of the present existing administration. It should be in the power of the Government, nevertheless, to select persons for this duty who seem particularly fitted to perform its requirements.

9. The extent of the penalty that should be given by the law has not been discussed.

HOMES FOR WORKING PEOPLE.

1. That it is necessary that a scientific statistical report be drawn up on the dwelling-places of the working people.

2. That it is necessary to inspect in a thorough and effectual manner the habitations of the working people, especially those which serve as dwelling-places for several families. The communal regulations should prescribe, for the construction and reconstruction of these houses, every condition that is indispensable to both health and morality.

3. That it is necessary to revise the law of 1822 on personal contribution (taxes) concerning the total or partial exemptions established in favor of working people's homes.

4. That it is necessary to encourage the erection of this class of houses in the country as well as in the city, and especially to urge those charitably inclined to invest part of their capital in constructing such buildings as will meet all the demands of hygiene as well as morality.

5. That the benefits granted by articles 1, 2, 4, and 5 of the law of August 12, 1862, which derogates in favor of associations having for their object the erection of houses and other buildings for the use of the working classes, are applicable to all constructors of such buildings, and particularly to public administrations, such as charitable institutions, asylums, and communal administrations, who employ in the construction of these houses a sinking fund, whether it be part of their inheritance or borrowed capital.

6. That it is necessary—

First. To look favorably upon those societies whose aim is to rent, erect, and, above all, to sell houses to working people, and allow them to issue stock.

Second. To exempt from the land tax for fifteen years any house sold to a workman.

Third. To see that the communal administration grant to all who devote their attention to the erection of such houses exemption from the municipal tax (*frais de voirie*). *

Fourth. To prohibit the imposition of a provincial or communal tax upon any such houses which are exempt from government tax. Any house, the value of which does not exceed 3,000 francs, should enjoy this advantage.

7. That societies having for their object the erection, purchase, sale, or rent of houses for the working people should be recognized as ecöperative or limited corporations. The exemption from various duties granted in favor of ecöperative societies by articles 1, 2, 3, and 4 of the law of July 2, 1875, also applies to limited corporations whose object is defined in article I.

8. That it is necessary to exempt from execution (*droits de mutation*) any work-

* Money used for the acquisition of land through which streets are to be opened, the paving of the same and building of drainage and water and gas conduits.

ingman who purchased a house of a less value than 3,000 francs from a building society or from any other public organization that is interested in that business, according to the conditions already defined.

9. That it is necessary to revise certain provisions of the civil code, in order to insure to the survivors of the husband the enjoyment of the house acquired during the married life of the deceased, and which, after his death, serves as the home of his heirs.

10. That it is necessary to revise articles 826, 827, 859 and 866 of the civil code ordering the division of the schedule of real estate and the sale thereof, when it is not devisible, there being in the entire inherited estate only one dwelling with appurtenances, the value of which does not exceed 3,000 francs.

11. That it is necessary in dividing the territory—

First. To reserve a portion of the land expropriated for the erection of houses for the working people.

Second. To erect upon the expropriated land a certain number of houses for the working people to replace the houses expropriated.

Third. To leave unoccupied by buildings a certain proportion of land, the amount to be determined by law.

PROFESSIONAL ASSOCIATIONS.

1. That each recognized professional union should be composed of citizens of Belgium, and that each union should contain only those of the same avocation. It may be composed of all employes, or of all employers, or of both, and should have for its object the education, the development, and the protection of their professional interests. The union may number among its members foreigners who have resided for at least two years in Belgium, on condition that their number shall never exceed one-tenth of the Belgium members, but they should never fill any executive position.

2. That the union should, in case of a dispute relative to labor, exert every effort for an equitable adjustment, if this will be permitted by the other party.

3. That its professional interests will concern exclusively: The board of arbitration; the labor exchange and all information on labor; the movements or the emigration of working people; assistance to those who are unemployed; the term of apprenticeship, technical education, library, exposition; questions relative to the conditions of labor, to the inspection and control of contracts, mines, factories, workshops, and the lodging-places of the workingman; to defend the workingman's interests in court of law; to secure aid in case of sickness, death or inability to work, either by organizing mutual aid societies or saving banks, or by direct appeal to the members, if the societies be in the same branch of the union; agricultural interests by inspecting and controlling all provisions, and purchasing all fertilizers and farming implements.

4. That a union organized on these principles should deposit a copy of its constitution and by-laws with the bureau of registry, which should be organized by the minister of agriculture and industry. This bureau will furnish a receipt thereof, which will guarantee the publication of the said constitution and by-laws within one month in a special issue of "Le Moniteur." Each union should select at the time of its organization some distinguishing title by which it shall be known.

5. That the professional unions shall have judicial individuality. No union can accept by free title (*a titre gratuit*) anything except real estate and that which is necessary to furnish or improve the same. Other than what has been mentioned they can not possess anything except the contributions from membership.

6. That each union should annually furnish to the bureau of registration notice of every change or modification that is relevant to the constitution of the council. The register of the members should designate the nationality of each one. This register should be at the disposal of the minister and of the committee appointed by the King's advocate. All changes in the constitution, the nominations for members of the council, and a statement of financial standing should be published in a special issue of "Le Moniteur."

7. That the courts can, at the request of those interested and by desire of the ministry, declare as incompetent all unions which shall be organized or shall act in violation of the provisions of this law, and shall pronounce all their actions null and void. In case of false representation in the annual statement the directors of such a union may be prosecuted by due process of law. Any union which does not comply with the requirements prescribed in article 6 by March 31 of each year, for the preceding year, should be subject to a penalty of 25 francs for each month's delay. When such neglect has existed for six months the entry should be reported as prescribed in article 4.

8. That any member has the right, notwithstanding any clause, to resign at any time from a union, and said union can only claim from him the assessment past due and the current one. If he has made any deposits in the savings banks, he has the right either to continue his membership therein, or to receive for such deposits an amount to be determined by the courts.

9. That in case any union should be disbanded the liquidation of the indebtedness must conform to the law of 1873 relative to commercial unions.

METHODS OF REDUCING ALCOHOLISM.

1. That the tax on malt liquors be reduced, and in order to compensate for the reduction a sum at least equal to it be added to the tax on alcohol.

2. That the price of the license to sell alcoholic beverages be increased.

3. That in order to decrease the number of drinking houses the commune proposes :

First. To forbid the issuing of new licenses.

Second. To decree the suppression (in case of death, failure, or retirement from business) of existing licenses.

Third. In order to protect private interests the present holder of a license is authorized to surrender it to the wife and children of a deceased dealer, and to allow by process of law to the highest bidders the re-opening of a portion of the drinking houses which have been closed during the year.

4. That certain interdictions be provided—hawking, plurality of commerce, and selling liquor to persons less than sixteen years of age.

5. That the time of closing be fixed by law.

6. That no suit for the recovery of drinking debts be tenable in law.

7. That the Government officials be intrusted with the inspection of drinking houses.

8. That fines be imposed upon every one found under the influence of liquor in any public place, and also upon any drinking house keeper who sells liquor to any person already intoxicated or to any minor under sixteen years of age.

9. That bond be required of all drinking house keepers. This bond will serve as a guaranty for the payment of liquor taxes, as well as for the fines or damage which will accrue, either from the actions of the keeper of the house himself or from those of the persons who have become intoxicated in his house.

10. That the sale of alcoholic beverages on credit be prohibited.

11. That the Government should use every known means in its power to suppress intemperance. The Government, with this aim in view, particularly advises the formation of temperance societies.

TECHNICAL SCHOOLS.

1. It is necessary for the public good to encourage the establishment of technical schools, by adding to the curriculum of academies and industrial schools courses of art and applied science. This instruction should tend in a practical direction. Those private institutions which take the initiative for the creation of technical schools should be encouraged by the public authorities, particularly if they meet all the requirements of public inspection.

2. The cultivation of manual skill should be commenced in the primary school. The theoretical application of science to industry should be taught in the industrial school. The theoretical application of drawing and modeling to industry should be taught in the decorative art schools. Apprenticeship should be served in the work

shops or in schools founded by the proprietors or syndicates, which should be closely connected with the workshops.

3. It should be the duty of the State to confine itself to the maintenance of harmony, and a grade between the different schools of technical education, and to encourage them by subsidies, respecting as far as possible, the first step taken by the group who founded them.

4. The communes can greatly aid the professional education by—

First. Introducing manual exercises in the primary schools.

Second. By establishing schools of modeling and design.

Third. By encouraging their progress by granting location to the professional syndicates.

5. The State and communes should place the schools under the following restrictions:

First. A minimum age for admission to an apprenticeship.

Second. The minimum education, to be determined by examination, that an applicant for apprenticeship must possess. This minimum should comprehend a thorough knowledge of reading, writing, and the four fundamental rules of arithmetic.

6. The government should encourage the establishment of a more advanced curriculum for adults, in which should be included a theoretical education adequate to the requirements of those who would apply themselves to the higher mechanical arts.

7. The government is requested to extend to children of working people who attend a technical school the privilege of the low tariff on the railroads as allowed to the working classes.

PAYMENT OF SALARIES.

1. That every contract for labor which stipulates either directly or indirectly a method of paying the salary which is other than in current money should be null and void. Every contract that has for its object the spending of the workingman's salary in a specific manner should be null and void.

2. That the payment of all or of any portion of a salary otherwise than in current money should be null and void. The workingman should by due process of law recover all or any part of his salary which had not been paid to him in current money.

3. That the action of any proprietor for the recovery of indebtedness for merchandise furnished to any working-man should not be tenable.

4. That any proprietor convicted of having used undue pressure to make a workingman purchase of, or prohibit him from purchasing of, any specific establishment should be amenable to the penalties prescribed in article 9 of the present law.

5. That if any foreman or fellow workman in the mine, the factory, or the yard, or any contractor or subcontractor has sold goods to any workman in the same shop, factory, or yard, an action for the recovery of the indebtedness by the said foreman, fellow workman, contractor, or subcontractor should not be tenable.

6. That no reduction not specified in the contract should be made in the salary.

7. That the proprietor should be compelled to pay his employ  s at least twice during each current month at fourteen, fifteen, or sixteen days interval. The first payment in the month should be made as on account, but must represent at least 75 per cent. of the accrued salary for the first fifteen days.

8. That it should be forbidden for any proprietor to pay wages in any drinking shop, store, or factory, or in any place connected with such establishments. Any person who should violate this order should be liable to the penalty provided by the present law.

9. That every person violating the present law should be subjected to a fine of from 100 to 500 francs for the first infraction, and for each repetition of the offense a fine of from 500 to 1,000 francs should be imposed.

10. That the present law should not affect either farm hands or house servants.

11. That it should be the duty of every proprietor to see that the present law shall be and must remain displayed in every factory, and particularly in the office where the wages are paid.

SAVINGS BANKS.

1. That the commission of labor should by every means in its power insist that the directors of every corporation, proprietors and foremen of factories, the presidents of provident and mutual aid societies, the managers of charitable institutions (*patronages*) and other organizations which have for their object both the physical and moral advancement of the laboring classes should establish among these classes an agency which would encourage thrift, by receiving from them on every pay-day sums, no matter how small, which should be placed to their credit in the savings-bank. To accomplish this end the commission suggests the formation of soliciting committees, whose duties should be confined to a certain territory, a single canton for example.

2. That it would suggest to managers of provident savings-banks :

(a) To place at the disposal of the directors or presidents of these institutions account-books of the same style as those distributed by the national banks, with the exception that they bear no official signature nor number, and that they have a cover peculiar to themselves.

(b) To have printed on these account-books the lowest possible rate of interest, and to guarantee to credit once every year upon each book as presented the amount of interest that has accrued to the holder.

(c) To furnish to each society demanding it one of these books numbered, on which shall be entered *les sommes globales* of the different deposits upon the unnumbered books.

(d) To furnish a register upon which the directors shall enter the name and amount of deposit of every one interested in these savings-banks.

3. That the commission suggests to the Government and to the managers of the savings-banks that they establish either triennial or quinquennial conventions, to reward by classes the associations which are formed, with a view of protecting the savings of the working people.

MUTUAL AID SOCIETIES.

It is necessary—

First. To organize in every arrondissement one or more executive committees for the formation and development of mutual aid and provident societies, and comprehend in them all working people who are members of mutual aid societies, whether recognized or not.

Second. To request the communes to furnish a convenient location for the holding of meetings, as well as all necessary furniture.

Third. To encourage every publication which has for its object the development of the principles of friendship, economy, and temperance, particularly when the publication is in the shape of a tract.

Fourth. To make untransferable and to place beyond the reach of seizure the interests of every member in a mutual aid society.

Fifth. To modify as follows the third section of article 3 of the law of April 3, 1851 : That the society shall be empowered to accept, either as a donation or a legacy, the furniture as well as the property used for its meetings according to the requirements of the form prescribed by section 3 of article 76 of the communal law.

Sixth. To rescind article 8 of the law of April 3, 1851, which empowers the burgo-master or his deputy to assist at the sessions of recognized societies.

Seventh. To submit for the approval of the chambers the royal decree issued December 2, 1874, especially that portion which relates to the conditions required to approve the statutes, the forms and conditions of dissolution, and the methods of liquidating the affairs of a mutual aid society ; to modify section 5 of article 6 of the law of 1851 so far as to give the members of the society at least a partial ownership in the property of the society.

Eighth. To ask the permanent commission to give the most vigilant attention to the statistics of the society, so as to place them by means of clear and precise investigation upon a scientific basis.

Ninth. To suggest that the Government give its attention to the best methods of enhancing the shares of the mutual aid societies in the savings-banks, and to persuade

the givers and the communes to offer as prizes in the schools, savings-bank books to popularize the banks.

Tenth. To recommend in the most pleasing manner to the foremen (*chefs d'industrie*) their affiliation with the mutual aid societies by becoming enrolled as honorary members.

Eleventh. To exempt from the postal tax all printed matter of a legally-recognized society.

CONVENTIONS OF EXPERTS.

1. The commission expresses a great desire to see revised, articles 2, 3, 4, 8, 13, 29, 38, 41, 46, and 83 of the law of February 7, 1859, in reference to the conventions of experts, with a view of—

First. Authorizing the establishment of these conventions by royal decree.

Second. Rendering compulsory the registration of the business of all electors, whether they be workingmen or proprietors, meeting under the conditions prescribed by article 6 of the law: Every person who shall be unduly registered, omitted, or erased from the register, should have the right of redress before the justice of the peace.

Third. Suppressing the fifth section of article 6, as well as article 7, which treats of the ability of the members to read and write, and the re-union of the privileged classes.

Fourth. Selecting from their own branch of the council the president and vice-president.

Fifth. Organizing conventions of experts for each permanent industry, to unite the lesser industries, and consequently reduce the large figure of sixteen members, or, much better, let the convention of experts be composed of a sufficient number of members to enable a subdivision of committees to be made representing the industries of like class. The royal decree can decide if elections shall be held by classes.

Sixth. Extending the jurisdiction of the convention of experts to affairs which relate to pensions and aid rendered by the provident savings-banks.

Seventh. Refusing the admission of more than one member of any firm as a delegate to the convention of experts.

Eighth. Abolishing the right to appeal from any of the decisions, no matter what may be the complexion of the convention.

Ninth. Simplifying as much as possible the forms and decreasing the expenses, so that the cost will be as small as possible for both proprietors and working people.

2. The foremen, or *porions*, will be electors as working people, but will be eligible only as proprietors.

3. It is requisite that the greatest publicity be given to all announcements relative to the election for members of the convention.

4. It is requisite that the secrecy of the vote be maintained.

5. Every proprietor or workingman who complies with the conditions set forth by articles 4 and 6 of the law, and who does not fall under the ban of the offenses set forth in article 11, shall receive an elector's card, by the authority of which, and without other formality, he can exercise all his rights at any election which shall take place within his jurisdiction until the 31st day of March of the following year.

SCHOOLS OF DOMESTIC ECONOMY.

1. It is highly necessary that the state, the provinces and the communes should each appropriate certain amounts for the establishment and maintenance of schools of domestic economy.

2. The Government will suggest to the communes the advisability of annexing to their communal or district schools a branch wherein domestic economy will be taught. In this case the branch should be equipped with a special corps of teachers.

3 and 4. (Special regulation of no general interest).

HOMES FOR WORKING PEOPLE.

Conclusions modifying those already adopted at the session of November 13:

1. That it is necessary to prepare a scientific statistical statement of the homes of

working people. The commission of labor expresses the hope that in the prosecution of this investigation the superior council of public health will be called upon to furnish the data, even approximately, as to the number of families in each house, and the separation of children from adults, as well as the separation of the sexes during the hours of sleep.

2. That it is necessary to give legislative recognition to the powers of the communal, to—

First. Issue prescribed regulations for the building of these houses in order that they shall possess those requirements so indispensable to both morality and health.

Second. Maintain, in the interests of sanitation, a continuous and effective inspection of these houses, especially of those which are occupied by several families. The hallways, yards and stairways which lead to separately-rented apartments should be regarded by the police as public thoroughfares, and should be inspected accordingly.

3. That it is necessary, pending a more complete revision of the law of 1822, which relates to personal contribution, to modify the sections of that law which treat of the total or partial exemptions established in favor of houses of a greater rental value and excluding from the same benefits the homes of clerks and drinking-houses.

4. That it is necessary that public administrations should employ a portion of their capital in constructing comfortable dwelling-houses and rent them at such prices that after all expenses are paid, except the interest, the residue should be a fair return for the capital invested in the enterprise. The establishment of cabarets should be prohibited. To encourage the tenants to keep their apartments cleanly and in good order, it should be stipulated that the net proceeds of the rental, less, of course, the interest due upon the capital invested, should be divided annually among the occupants by crediting it against the next month's rent.

5. That it is necessary that the benefits granted by articles 1, 2, 4 and 5 of the law of August 12, which derogates in favor of societies that have for their object the erection of houses and other buildings intended for the working people according to their rights under the laws of registration and transcription, should be also applicable to every builder of such houses, and especially to public administrations, such as beneficial associations, asylums and communal administrations, who employ in their construction a sinking fund, whether it be in the shape of a legacy or borrowed capital.

6. That it is necessary—

First. To encourage those associations which have for their exclusive object the construction, renting, and particularly the sale of this class of houses to working people, by authorizing them to issue their stock at a premium.

Second. To exempt from the land tax for fifteen years all newly-constructed houses, the cost of which, not including the land, does not exceed 1,600 francs. In the event of the sale of one of these dwellings, if the purchaser is possessed of no other real estate, and if the purchase money is to be paid as an annuity, the exemption from the land tax shall be granted for fifteen years to be dated from the day the sale was consummated.

Third. To prevail upon the communal administrations to exempt from the municipal tax (*frais de voirie*) all companies or societies who devote their capital to the erection of this class of houses.

Fourth. To forbid the provinces and communes to levy any tax upon houses which have been exempted from the land tax.

Fifth. Not to increase either the land tax or the provincial or communal taxes upon present existing buildings after they have been cleansed and improved, provided their value does not exceed 1,600 francs, land not included.

7. That societies having for their object the erection, purchase, sale, or rental of houses for the working people should be recognized as coöperative or limited corporations. The exemption from various duties granted in favor of coöperative societies by articles 1, 2, 3 and 4 of the law of July 2, 1875, also applies to limited corporations whose object is defined in article 1.

8. That it is necessary to exempt from execution (*droits de mutation*) any workman who purchases a house of a less value than 1,000 francs, land not included.

9. That it is necessary to revise certain provisions of the civil code in order to insure to the survivors of the husband the enjoyment of the house acquired during the married life of the deceased, and which, after his death, serves as the home of his heirs.

10. That it is necessary to revise articles 826, 827, 839 and 869 of the civil code, ordering the division or the schedule of real estate and the sale thereof when it is not divisible, there being in the entire inherited estate only one dwelling with appurtenances, the value of which does not exceed 1,000 francs, the land not included.

INSURANCE AGAINST ACCIDENT.

1. In order to establish the insurance upon a scientific basis, it will be necessary to prepare a statistical account of the number of employ  s of each trade, and the average number of accidents in that particular branch.

2. It would be only just to compel every proprietor to announce, through a method yet to be determined upon, every accident sustained in his establishment.

3. That damages to be paid on account of an accident should be regulated in the most stringent manner by the law. The injured party should be at liberty to decide upon the mode of indemnity.

4. Every workingman should be insured.

5. The insurance should cover all risks incidental to his occupation.

6. The law should give its attention consecutively to the salaried workmen belonging to the different branches of manual labor.

7. The employ  s who may become insured should be those who receive an annual salary of not less than 2,500 francs ; foremen are included under this rule.

8. The law should decide who shall be the persons to whom, in case of death, the insurance money should be given, as well as the proportion thereof that each one should receive.

9. The salary of the five previous years and the age of the injured man should be the ground upon which to base amount of indemnity.

10. In order to assist the workingman in proving his claim, the law should make it obligatory upon the proprietor to keep a book in which the amount of wages paid to each man be entered.

11. An accident occurring through the gross carelessness of the injured party himself is not subject to indemnity.

12. The workingman can be insured by the proprietor.

13. The premium may be paid by the proprietor to the insurance company. It will be rated according to the risks attending his occupation, and by the standing of the factory in which he is employed.

14. The premium will be sufficient to furnish the capital of the pensions granted.

15. The insurance company should be a syndicate formed from factories of the same or similar industry, and their operations should be controlled by the State.

16. The syndicates should be managed by a committee composed of proprietors and employ  s in equal numbers, with a president, who should belong to neither interest.

17. The insurer should guarantee the insured according to the amount of premium paid.

18. The labor commission requests the Government to submit the question of right on the responsibility for accidents to the commission appointed to revise the civil code. It trusts that this commission will render a prompt report on the questions submitted to it.

MUTUAL AID, PROVIDENT AND PENSION SOCIETIES IN THE INTEREST OF FACTORY EMPLOYEES.

A.—Mutual aid societies.

1. Each proprietor of any work, whether it be permanent or of a temporary duration of three months at least, who is bound by the law to see that his employ  s are insured or is connected in any manner with the communal provident societies in favor of minor workingmen, should provide :

For the wounded.—(a) Means to summon immediately to their aid both surgical and medical assistance (in this medicine is included). (b) Means by which they may be afforded both pecuniary and sanitary aid.

For the sick.—(a) Means to provide medical attention not only for the workingman himself, but also for any of his family who reside in the same house. A workingman whose sickness has been brought about by his own imprudence or by continual intemperance, may be deprived of this assistance. (b) Means by which to allow to the sick workingman, as a direct result of his labors in the factory, all in dispensable assistance of a pecuniary or medicinal nature.

2. The proprietor should have recourse to every available means for assuring himself of the responsibility of this organization.

3. Those particular mutual aid societies which are supported or created by reason of article I should be maintained by a rebate on the wages, by contributions of the proprietors, by subsidies and various bequests, as well as by the result of the fines incurred for infractions of any regulation of the establishment or workshop. At all events, the contributions of the proprietors should be ample to defray all the medical and surgical expenses (including the medicine) of the injured working people.

4. The aid societies may be specially intended for the injured and sick, or they may be thrown open to all classes. They may also be open to several industries carried on in the same or neighboring localities.

5. Any workingman interested in any mutual aid society may, if he so desire it, be exempted from contributing to that particular society. In such an event he should not be entitled to any of the benefits of the institution except the right to free surgical attendance.

6. The administration of these societies should be intrusted to the delegates of the workingmen; the method of electing whom, and all requirements for eligibility, should be determined by the statutes. Among those requirements should be that for a certain number of years (to be determined hereafter) the applicant has been in the continuous employ of the same proprietor or in the same workshop. The proprietor may have himself represented in the executive board and demand of it the presidency, with the right to vote. In every new establishment the executive board may be selected by the proprietor for the first three meetings.

7. The length of time which each individual mutual aid society is obliged to contribute to any injured member should be three months from the date of the accident.

8. Every possible notoriety should be given as regards the financial standing of any society, particularly by sending to each workingman a tabulated statement of the proceedings of the previous meeting.

9. Individual mutual aid societies should be recognized under conditions to be determined by law. These should prescribe the method of liquidation for the recognized as well as for the unrecognized societies.

10. The Government may compel those industrial institutions who receive any support from the State to establish recognized mutual aid societies.

B.—Provident society for miners.

1. The provident societies for miners should be maintained; but they should be released from all past or present affiliation with pensions for old age.

2. The rates of other pensions should be made to harmonize with those of insurance against accident while at work.

3. The workingmen should contribute to the support of the society.

4. When an establishment has made for its pensioners a sum larger than the amount of rebate held back from the wages and the subsidy, then it should pay 50 per cent. of the excess into a fund to be known as the extraordinary subsidy.

5. The amount of the payments should depend entirely upon the class in which the various mining associations have been graded.

6. Provident societies should be permitted to receive support both from the Government and the province.

7. Each society should be managed by a commission, to be composed of proprietors and employes, in equal numbers, and presided over by an official of the State.

8. Each society should have a clause in its constitution which would permit any workingman to transfer his membership to any other society.

9. The commission is satisfied that the following clauses should by all means be adopted :

(a) That a workingman should be permitted by the commission to be represented before it by a physician of his own choice.

(b) That he should have the right of appeal to the convention of experts.

(c) That there should be compulsory affiliation between all miners and mining associations.

(d) That the term of existence of any society should be unlimited.

(e) That the decisions of the commission upon all matters appertaining to pensions should be so clearly and distinctly set forth that in case of the rejection of his claim the workingman can readily advise himself of the reasons thereof.

(f) That the greatest publicity should be given to the financial standing of every society.

C.—Pension societies.

1. All workingmen belonging to permanent organizations which derive assistance from the State should be affiliated by name with the general pension society, or with some analogous institution which has been specially organized in their interest. They should be given credit in the pension rates for a risk against accidental death.

2. As a result of this affiliation the proprietor would pay over to the credit of the workingman a certain number of centimes to be determined by the amount of work done daily. To this payment may be added an interest in the subsidies of the State, and the allowance made by the province. A portion of this payment should be made with regard to the capital at the death of the person insured.

3. The age at which a workingman shall be entitled to a pension should be decided by the trade which the applicant follows.

4. This affiliation of the working people with the pension society will be most sensibly felt only in the future, the pensions of old miners remaining provisionally in the custody of the president of societies now existing. The latter institution should occasionally be assisted by a portion of the resources which are really intended for the pension societies.

5. The attention of the Government is called to the article submitted by Canon Henry relative to the most practical means of improving and popularizing the pension societies.

CO-OPERATIVE SOCIETIES.

1. The law of May 18, 1873, section 6, relating to coöperative societies, is sufficient.

2. The law of June 20, 1867, which, in article I, authorizes the Government to confer all the rights of a limited society upon societies which have for their object the erection, purchase, sale or rental of houses intended for working people should be completed. It accorded to such societies as requested it, the rights and benefits granted to coöperative societies by the laws of May 18, 1873, and July 2, 1875.

3. It is necessary that the attention of the legislators and the Government be called to the great service that has been rendered to agricultural credit by the establishment and encouragement given to societies which are conducted in the interest of the farming element.

4. The commission particularly recommends coöperative societies of consumption, of popular credit, and those for the construction of houses for working people. It indorses those consumers' coöperative societies which deal with the merchants and the trades-people in their own vicinity. It expresses the desire that there will be organized a permanent commission of the coöperative societies similar to those established by the mutual aid societies, the aim of which will be to direct the members and keep together the statistical accounts.

5. In manufacturing establishments where the working people have organized from among themselves a consumers' coöperative association, the proprietors should be empowered to withhold from the wages of any workingman the amount that he is indebted to the said association.

6. By an extension of the provisions contained in articles 85 and 86 of the law of May 18, 1873, coöperative societies should be permitted to amalgamate so as to form another independent coöperative society from all the societies which, notwithstanding, shall preserve their juridical individuality.

7. The coöperative societies which have for their object the purchase of raw material, provisions, and tools intended for the consumption or use of their members may be organized under the form prescribed by the law of 1873, but even then their transactions should not be regarded as commercial, according to the terms of articles 2 and 3 of the commercial code.

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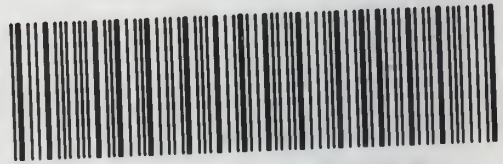
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